

CDX-CA705M

SERVICE MANUAL

US Model

Ver 1.1 2003.02



- The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (US Model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 watts per channel minimum continuous average power into
4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more
than 5% total harmonic distortion.

Model Name Using Similar Mechanism	CDX-CA700/CA700X
CD Drive Mechanism Type	MG-393XA-121//Q
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

CD player section

Signal-to-noise ratio 90 dB
Frequency response 10 – 20,000 Hz
Wow and flutter Below measurable limit

Tuner section

FM

Tuning range FM tuning interval;
50 kHz/200 kHz
switchable
87.5 – 108 MHz (at 50 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Usable sensitivity 8 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 66 dB (stereo),
72 dB (mono)
Harmonic distortion at 1 kHz
0.6% (stereo),
0.3% (mono)
Separation 35 dB at 1 kHz
Frequency response 30 – 15,000 Hz

AM

Tuning range AM tuning interval;
9 kHz/10 kHz
switchable
531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity 30 μ V

Power amplifier section

Outputs Speaker outputs
(sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output 52 W $\times$ 4 (at 4 ohms)

General

Outputs Audio outputs (front/rear)
Power antenna relay control terminal
Power amplifier control terminal
Inputs Telephone ATT control terminal
Illumination control terminal
BUS control input terminal
BUS audio input terminal
Remote controller input terminal
Antenna input terminal
Tone controls Bass $\pm$ 10 dB at 62 Hz
Treble $\pm$ 10 dB at 16 kHz
Loudness $\pm$ 8 dB at 100 Hz
 $\pm$ 2 dB at 10 kHz

– Continued on next page –

FM/AM COMPACT DISC PLAYER

9-874-008-02
2003B0400-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 178 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 10 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Card remote commander (1)

Note

This unit cannot be connected to a digital preamplifier or an equalizer.

Design and specifications are subject to change without notice.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

**CLASS 1
LASER PRODUCT**

This label is located on the bottom of the chassis.

**CAUTION—INVISIBLE LASER RADIATION WHEN OPEN
DO NOT STARE INTO BEAM OR
VIEW DIRECTLY WITH OPTICAL INSTRUMENTS**

This label is located on the drive unit's internal chassis.

SAFETY-RELATED COMPONENT WARNING!!

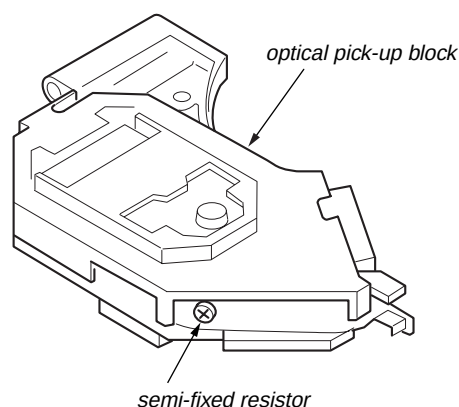
COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.

Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)

CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

Notes on CD-R/CD-RW discs

- You can play CD-Rs (recordable CDs)/CD-RWs (rewritable CDs) designed for audio use on this unit.
Look for these marks to distinguish CD-Rs/CD-RWs for audio use.



These marks denote that a disc is not for audio use.



- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/a CD-RW that is not finalized*.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

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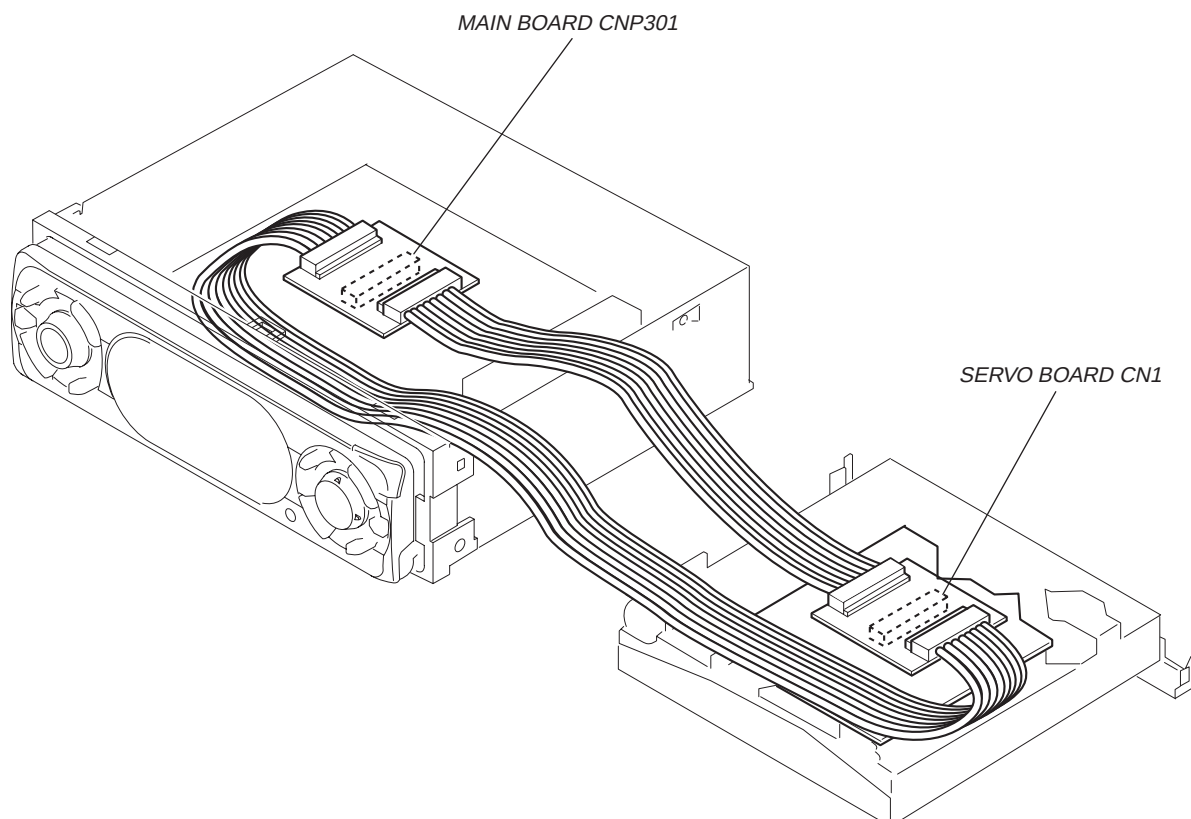
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5. ELECTRICAL PARTS LIST 39**EXTENSION CABLE AND SERVICE POSITION**

When repairing or servicing this set, connect the jig (extension cable) as shown below.

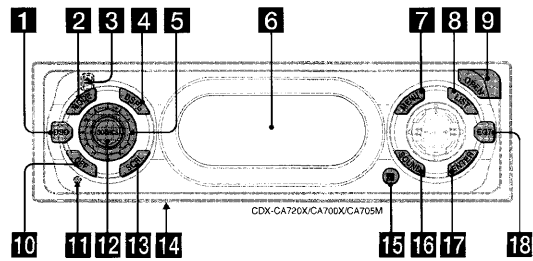
- Connect the MAIN board (CNP301) and the SERVO board (CN1) with the extension cable (Part No. J-2502-062-1).



SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of controls



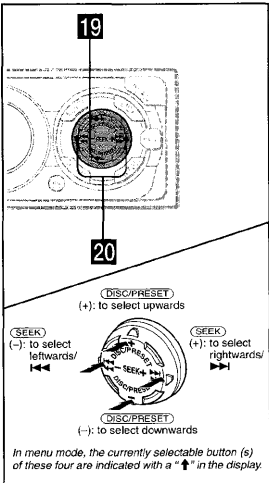
Refer to the pages listed for details.

- 1 DSO button 19
- 2 MODE button
To change the operation.
- 3 (eject) button (located on the front side of the unit, behind the front panel) 9
- 4 DSPL (display mode change) button
- 5 Volume control dial
- 6 Display window
- 7 MENU button
To display the menus.
- 8 LIST button 12, 15
- 9 OPEN button 8, 9
- 10 OFF (Stop/Power off) button*1 8, 9
- 11 RESET button (located on the front side of the unit, behind the front panel) 7
- 12 SOURCE (Power on/Radio/CD/MD) button
To select the source.
- 13 SCRL (scroll) button 10

- 14 Frequency select switch (located on the bottom of the unit)*2
The AM (FM) tuning interval is factory-set to the 10 k (200 k) position. Make sure that the 9 k (50 k) position is selected.
- 15 Receptor for the card remote commander
- 16 SOUND button 17
- 17 ENTER button
To enter a setting.
- 18 EQ7 button 19

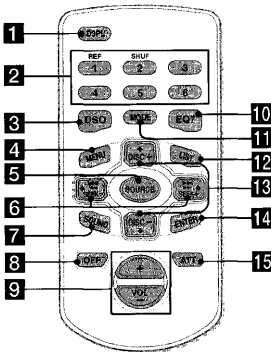
*1 Warning when installing in a car without an ACC (accessory) position on the ignition switch
After turning off the ignition, be sure to press (OFF) on the unit for 2 seconds to turn off the clock display.
Otherwise, the clock display does not turn off and this causes battery drain.

*2 CDX-CA705M only



- 19 DISC/PRESET buttons (+/-)
To receive preset stations, change the disc* and select a menu.
* When an optional CD/MD unit is connected.
- 20 SEEK buttons (-/+)
To skip tracks, fast-forward, reverse a track, tune in stations automatically, find a station manually, and select a setting.

Card remote commander RM-X118



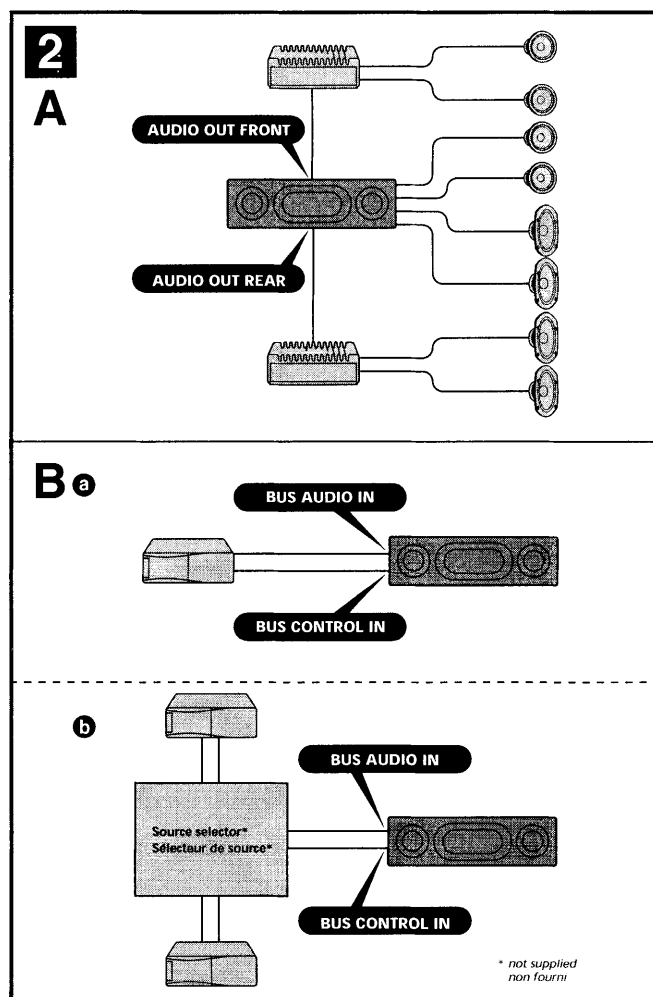
The corresponding buttons of the card remote commander control the same functions as those on this unit.

- 1 DSPL button
- 2 Number buttons
 - ① REP
 - ② SHUFTo store stations, receive stored stations.
- 3 DSO button
- 4 MENU button
- 5 SOURCE button
- 6 SEEK (←/→) buttons
- 7 SOUND button
- 8 OFF button
- 9 VOL (+/-) buttons
- 10 EQ7 button
- 11 MODE button
- 12 LIST button
- 13 DISC (↑/↓) buttons
- 14 ENTER button
- 15 ATT button

Note
If the unit is turned off by pressing (OFF) for 2 seconds, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
See "Replacing the lithium battery" on page 22 for details on how to replace the batteries.

Connections

**Connection example (2)****Notes (2-A)**

- Be sure to connect the ground cord before connecting the amplifier.
- If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Tip (2-B-5)

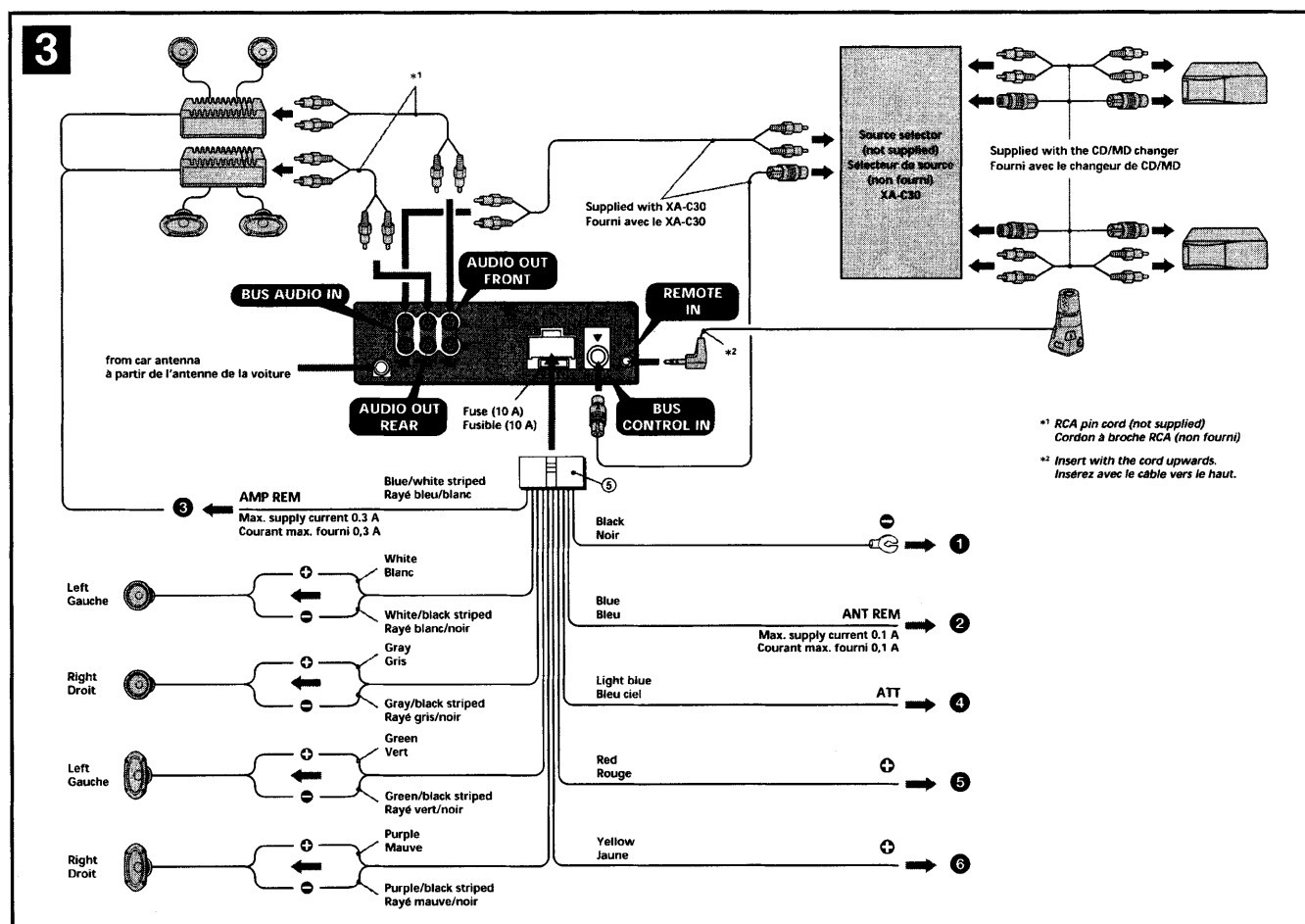
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Exemple de raccordement (2)**Remarques (2-A)**

- Raccordez d'abord le fil de masse avant de raccorder l'amplificateur.
- Si vous raccordez un amplificateur de puissance en option et que vous n'utilisez pas l'amplificateur intégré, le bip sonore est désactivé.

Conseil (2-B-5)

Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (en option) est requis.



Connection diagram (3)

- To a metal surface of the car**
First connect the black ground lead, then connect the yellow and red power input leads.
- To the power antenna control lead or power supply lead of antenna booster amplifier**
Notes
 - It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.
 - When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the interface cable of a car telephone**
- To the +12 V power terminal which is energized in the accessory position of the ignition key switch**
Notes
 - If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
 - Be sure to connect the black ground lead to it first.
 - When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- To the +12 V power terminal which is energized at all times**
Be sure to connect the black ground lead to it first.

Notes on the control and power supply leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.
- When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster.
- For details, consult your dealer.
- A power antenna without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker cords to each other.

Schéma de raccordement (3)

- à un point métallique de la voiture**
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
- vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne**
Remarques
 - Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière latérale, voir "Remarques sur les fils de commande et d'alimentation".
- au niveau du AMP REMOTE IN de l'amplificateur de puissance en option**
Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- vers le cordon de liaison d'un téléphone de voiture**
- à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
Remarques
 - S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.
 - Raccordez d'abord le fil de masse noir.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière latérale, voir "Remarques sur les fils de commande et d'alimentation".
- à la borne +12 V qui est alimentée en permanence**
Raccordez d'abord le fil de masse noir.

Remarques sur les fils de commande et d'alimentation

- Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio sous tension.

- Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière latérale, raccordez la sortie de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) à la borne de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

Raccordement pour la conservation de la mémoire

Lorsque le fil d'entrée d'alimentation jaune est raccorder, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

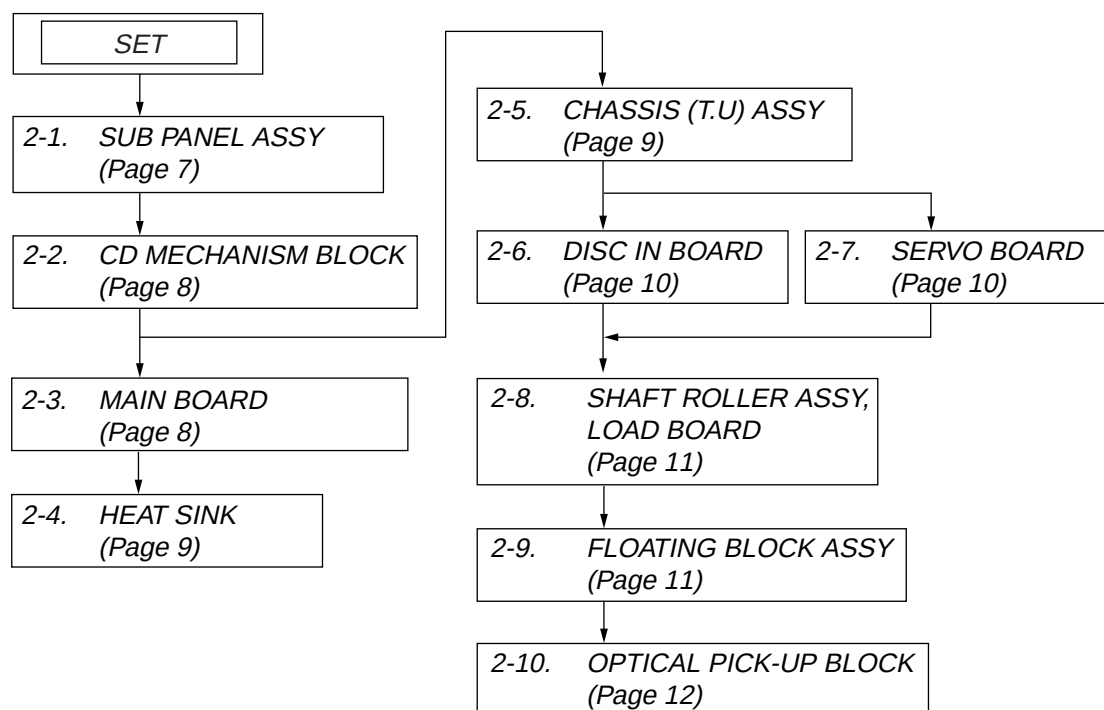
Remarques sur le raccordement des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.

- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité électrique adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleur au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne raccordez pas le câble de masse de cet appareil à la borne négative (-) de l'enceinte.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (-) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.

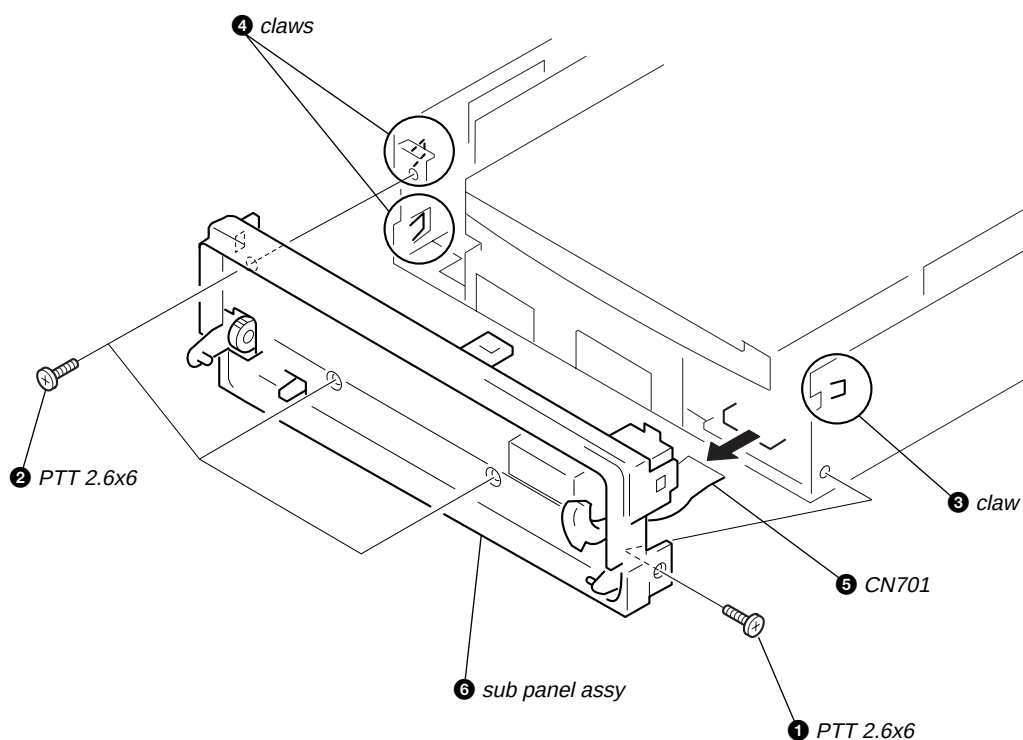
SECTION 2 DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

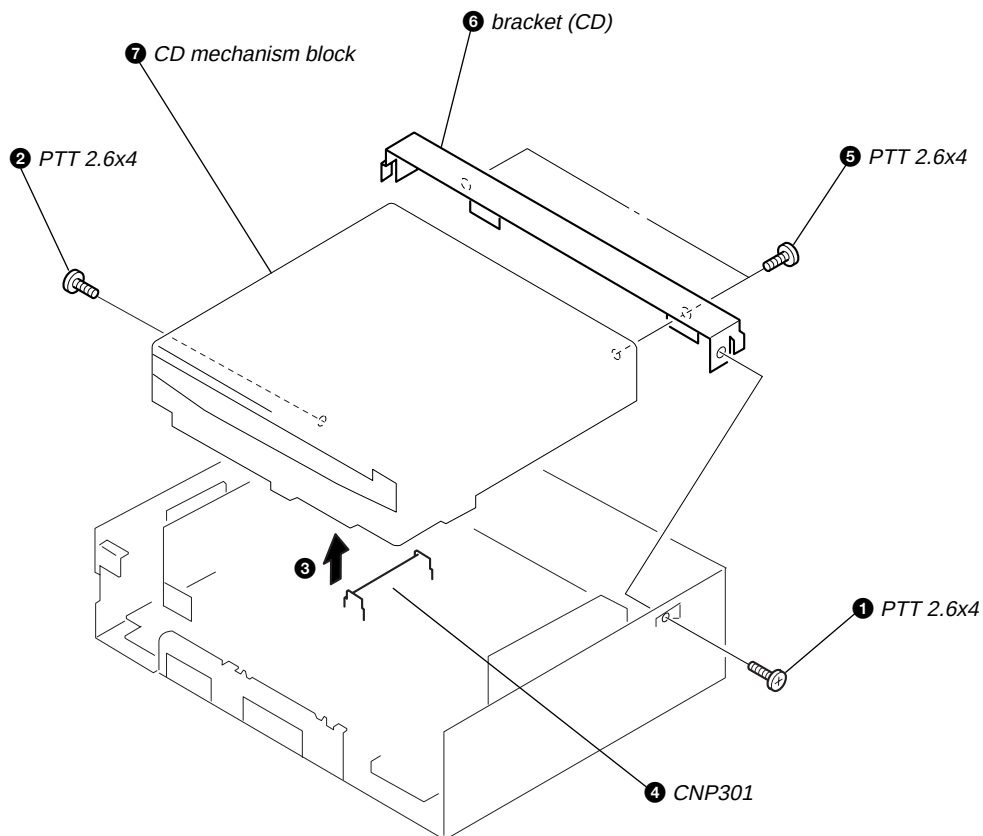


Note : Follow the disassembly procedure in the numerical order given.

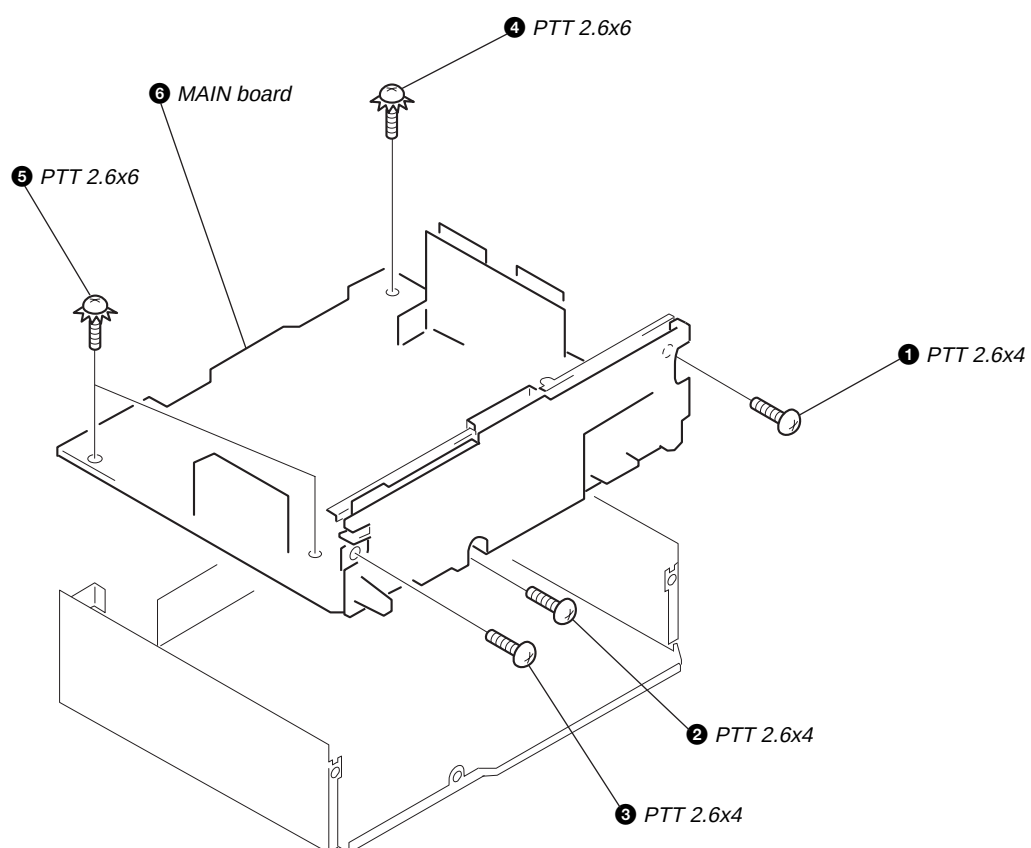
2-1. SUB PANEL ASSY



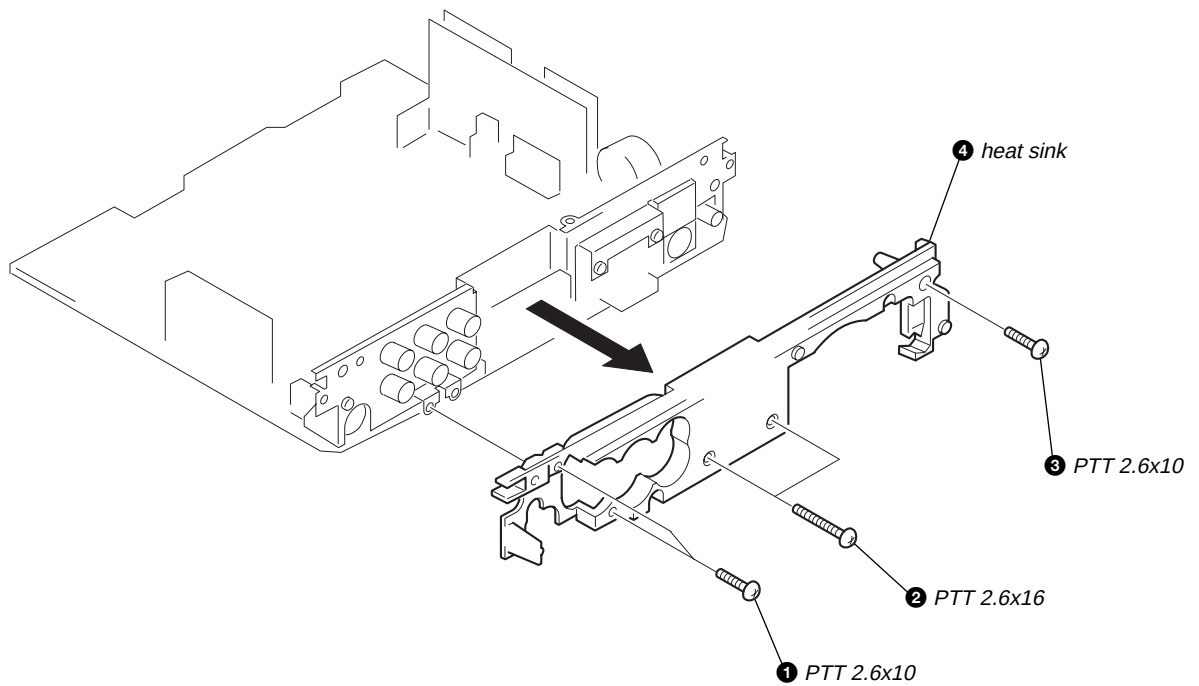
2-2. CD MECHANISM BLOCK



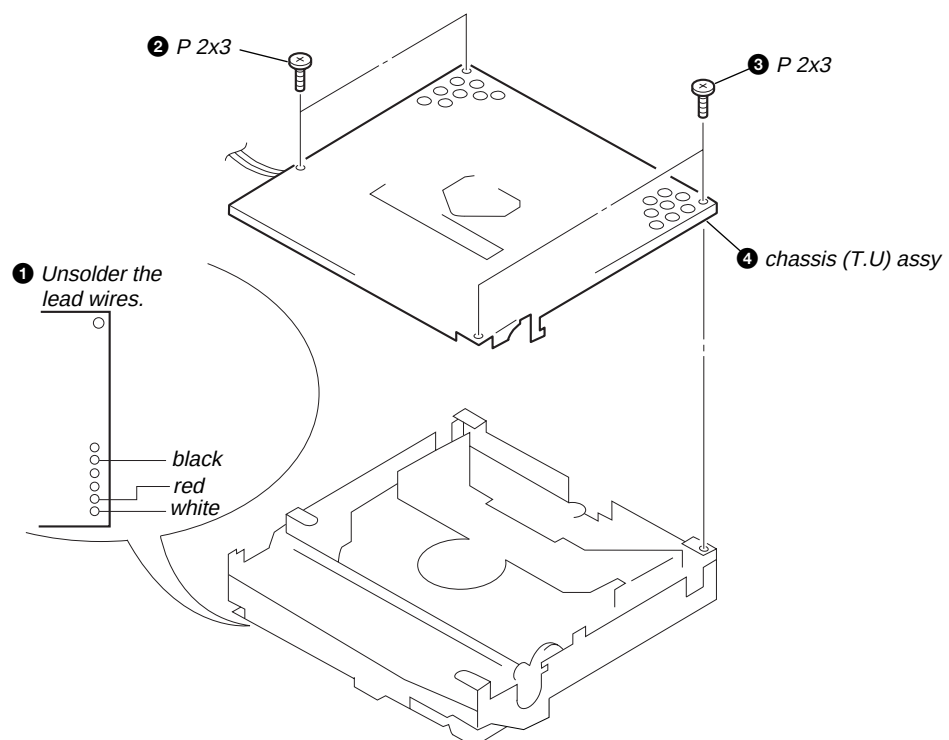
2-3. MAIN BOARD



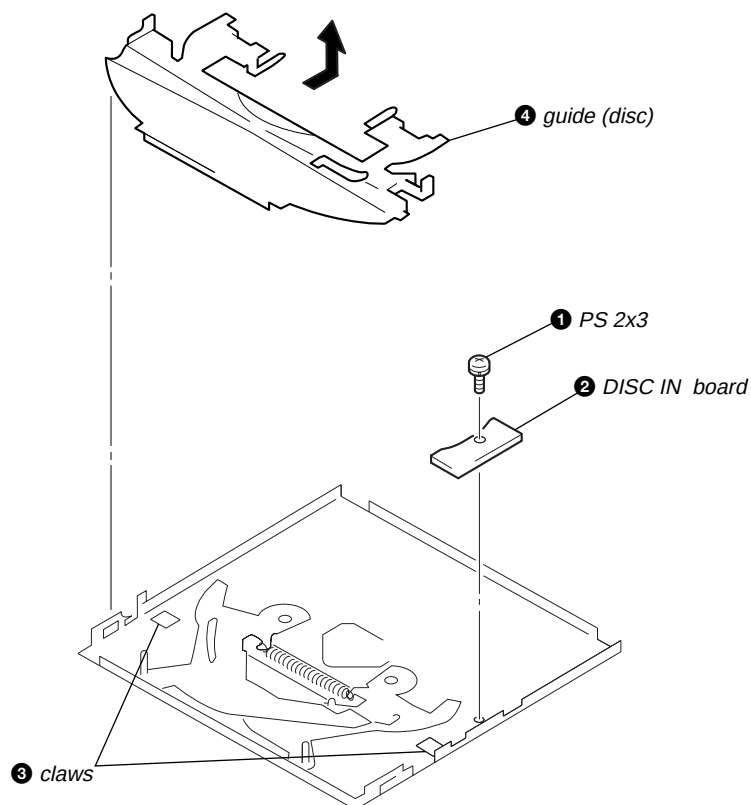
2-4. HEAT SINK



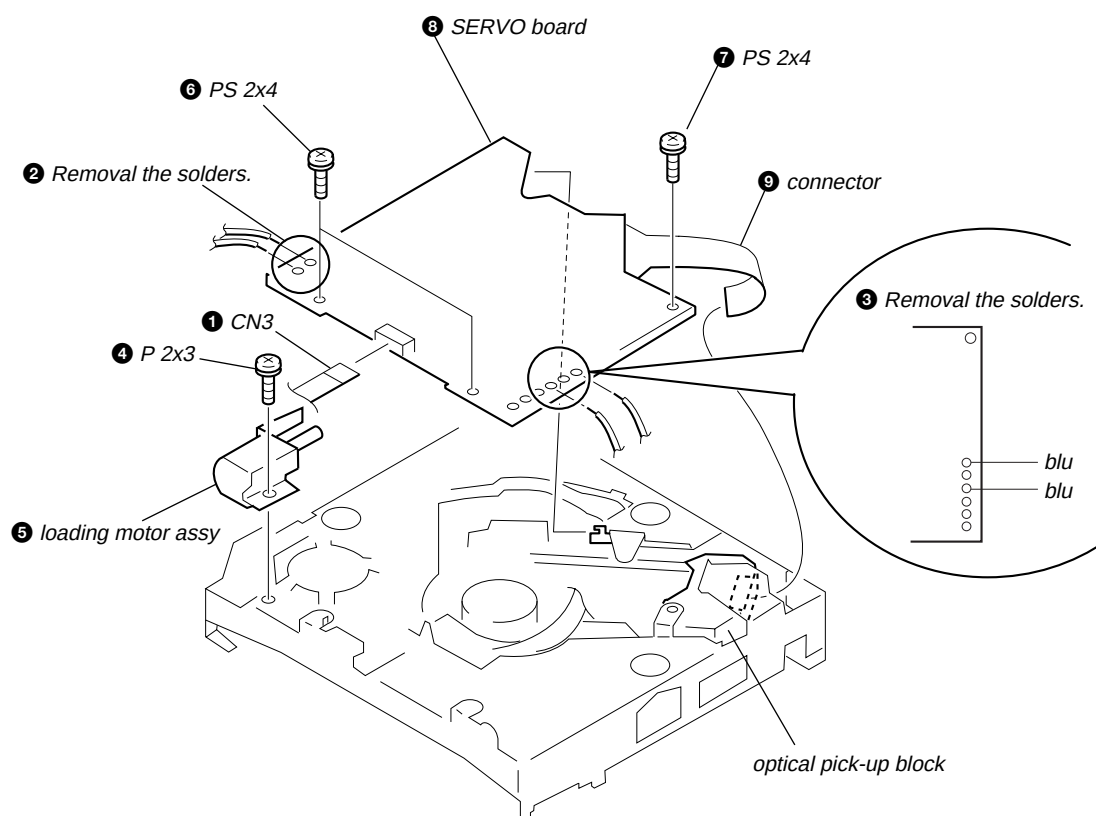
2-5. CHASSIS (T.U) ASSY



2-6. DISC IN BOARD

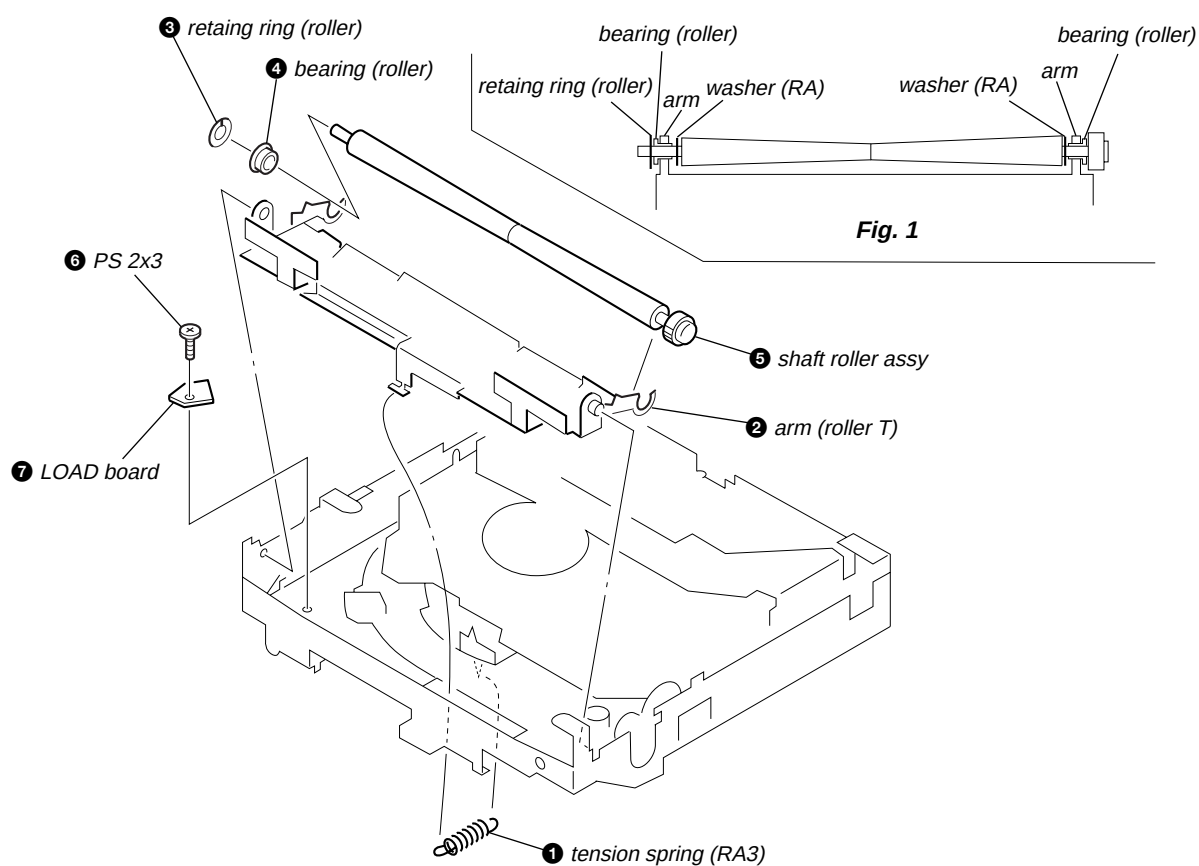


2-7. SERVO BOARD

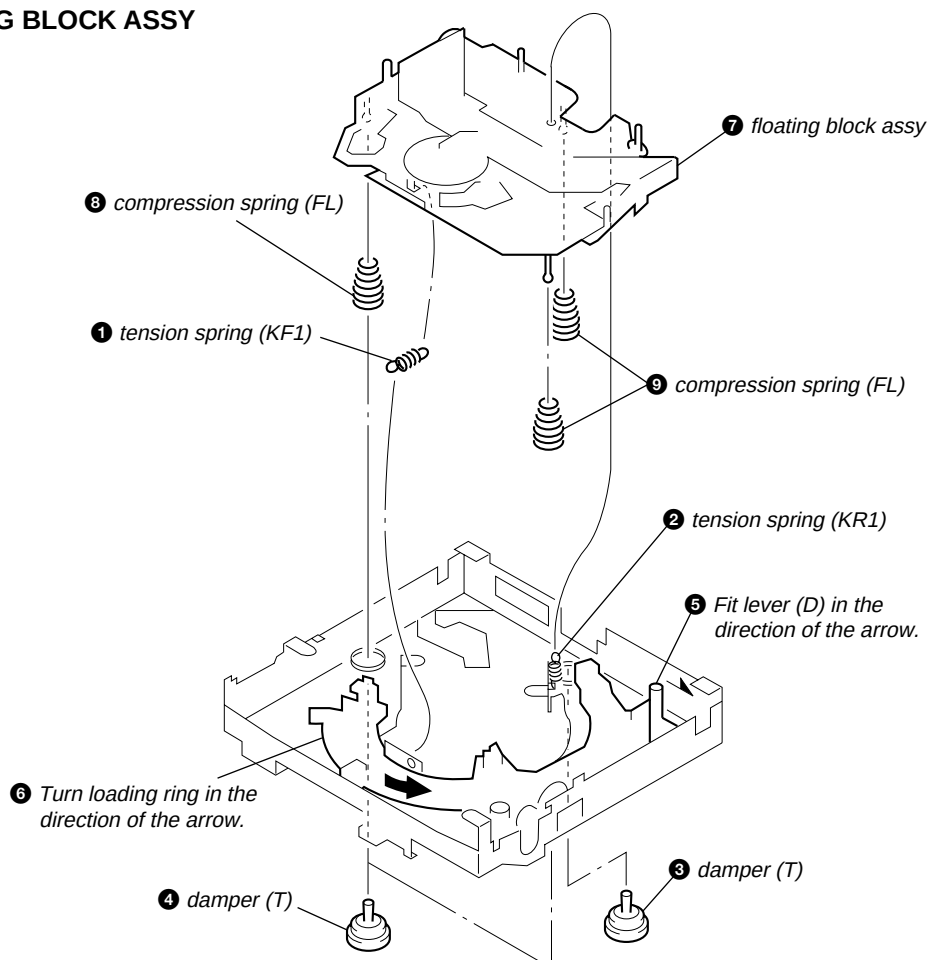


2-8. SHAFT ROLLER ASSY, LOAD BOARD

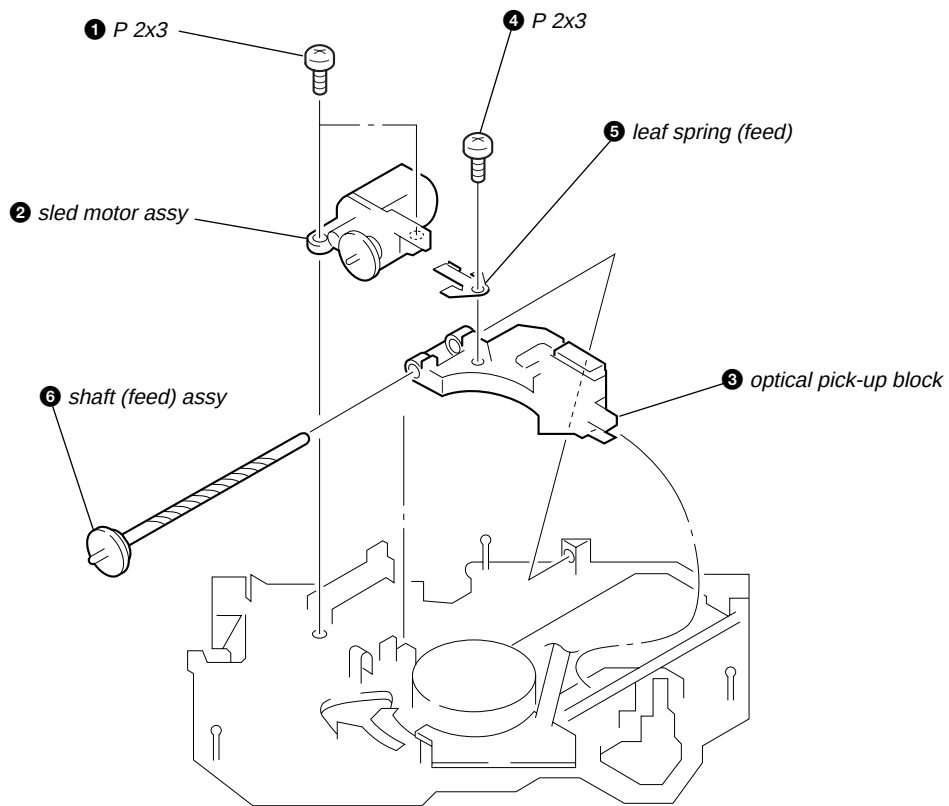
- When installing, take note of the positions arm (roller) and washers. (Fig. 1)



2-9. FLOATING BLOCK ASSY



2-10. OPTICAL PICK-UP BLOCK



SECTION 3

DIAGRAMS

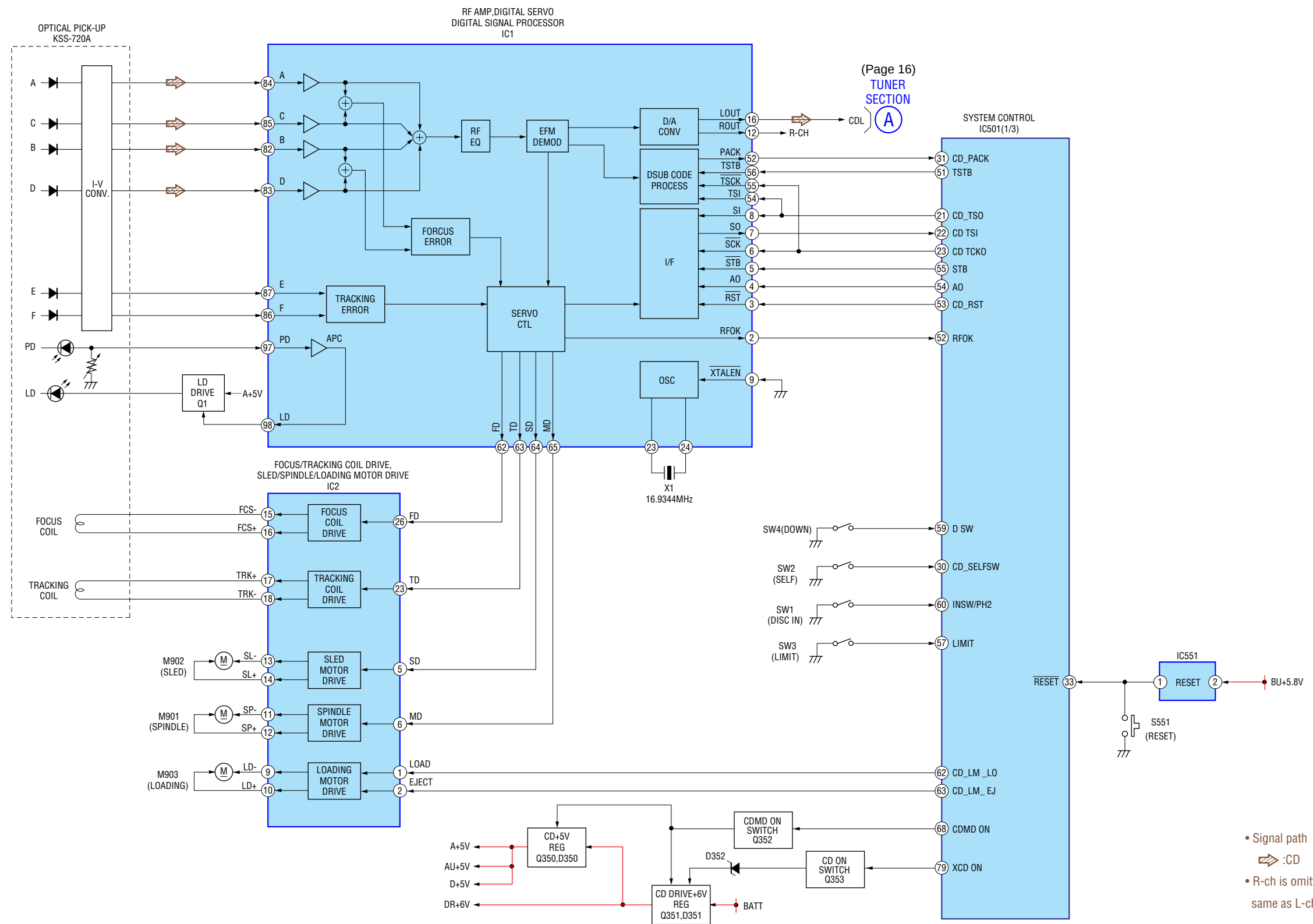
3-1. IC PIN DESCRIPTION

• IC501 MN101C49KCY2 (SYSTEM CONTROL)

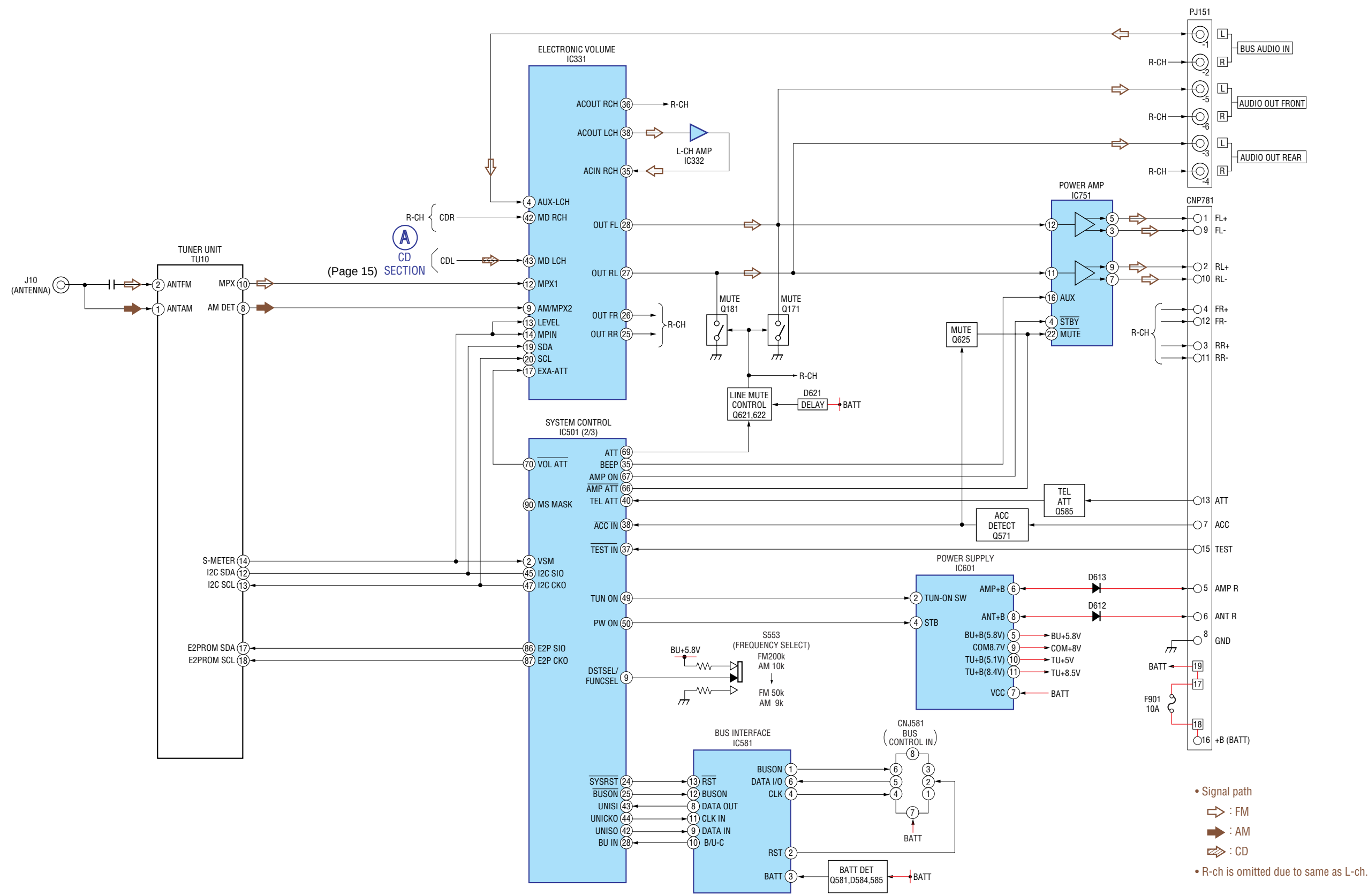
Pin No.	Pin Name	I/O	Pin Description
1	VREF-	—	Ground for A/D converter power supply
2	VSM	I	S-meter voltage detection signal input from tuner unit (TU10)
3	NIL	I	Connect to ground.
4	KEYIN1	I	Key signal input
5	KEYIN0	I	Key signal input
6	RC IN0	I	Rotary commander key signal input from remote in jack (J561)
7	QUALITY	I	Noise detection signal input Connect to ground in this set.
8	NIL/MPTH	I	Connect to ground in this set. Multi path detection signal input
9	DSTSEL/FUNCSEL	I	Destination set up detection signal input
10	VREF	—	A/D converter power supply
11	VDD	—	Power supply (+5 V) input pin
12	OSCOU	O	High speed clock signal output (18.432 MHz)
13	OSCIN	I	High speed clock signal input (18.432 MHz)
14	VSS	—	Ground for power supply
15	XIN	I	Low speed clock signal input (32.768 kHz)
16	XOUT	O	Low speed clock signal output (32.768 kHz)
17	MMOD	I	Memory mode select signal input (Input to “Low” (single chip mode).) (Connect to ground.)
18	LCDSO	O	LCD serial data signal output to LCD driver (IC901)
19	LCDCE	O	LCD chip enable signal output to LCD driver (IC901)
20	LCDCKO	O	LCD serial clock signal output to LCD driver (IC901)
21	CD TSO	O	CD servo IC serial data signal output
22	CD TSI	I	CD servo IC serial data signal input
23	CD TCKO	O	CD servo IC serial clock signal output
24	SYSRST	O	System reset signal output to bus interface (IC581)
25	BUS ON	O	Bus on signal output to bus interface (IC581)
26	KEYACK	I	Key acknowledge detection signal input
27	NIL/DAVN	I	Connect to ground in this set. RDS data block synchronization detection signal input
28	BU IN	I	Back up power supply detection signal input
29	SIRCS	I	Remote signal input from remote control receiver (IC971)
30	CD SELFSW	I	CD mechanism self load position detection switch signal input from self switch (SW2)
31	CD PACK	I	CD text pack sync signal input from CD servo (IC1)
32	VDD2	—	Power supply (+5 V) pin
33	RESET	I	microcomputer reset signal input from reset IC (IC551) “L”: reset
34	NOSE SW	I	Front panel attachment detection signal input from nose detect switch (S552) “L”: ON
35	BEEP	O	Beep signal output to power amp (IC751)
36	NCO	O	Not used. (Open)
37	TESTIN	I	Test mode detection signal input
38	ACCIN	I	Accessory power supply detection signal input
39	NCO (VCC)	O	Not used. (Open)
40	TELATT	I	Telephone ATT detection signal input
41	NCO (VCC)	I	Connect to power supply.
42	UNISO	O	Sony-Bus serial data signal output to bus interface (IC581)
43	UNISI	I	Sony-Bus serial data signal input from bus interface (IC581)
44	UNICKO	O	Sony-Bus serial clock signal output to bus interface (IC581)
45	I2C SIO	I/O	I2C bus serial data signal input/output
46	NCO	O	Not used. (Open)
47	I2C CKO	O	I2C bus serial clock signal output
48	NCO	O	Not used. (Open)

Pin No.	Pin Name	I/O	Pin Description
49	TUNON	O	Tuner power supply control signal output to power supply (IC601)
50	PW ON	O	System power supply control signal output to power supply (IC601)
51	TSTB	O	CD text parameter strobe signal output to servo IC (IC1)
52	RFOK	I	RF OK signal input from servo IC (IC1)
53	CD RST	O	Reset signal output to servo IC (IC1)
54	A0	O	Command/parameter identification signal output to servo IC (IC1) “L”: Command, “H”: Parameter
55	STB	O	Data strobe signal output to servo IC (IC1)
56	X EN	O	Crystal oscillation control signal output Not used in this set.
57	LIMIT	I	CD Mechanism in-limit switch signal input from limit switch (SW3)
58	PH1	I	CD Mechanism PH1 detection signal input Not used in this set.
59	D SW	I	CD Mechanism down switch signal input from down switch (SW4)
60	INSW/PH2	I	CD Mechanism disc-in switch detection signal input from disc-in switch (SW1)
61	NC (PH3)	I	CD Mechanism PH3 detection signal input Not used in this set.
62	CD LM LO	O	CD Mechanism loading motor control signal output to loading motor drive (IC2)
63	CD LM EJ	O	CD Mechanism eject motor control signal output to loading motor drive (IC2)
64	4VPRE/NCO	I/O	Hi-Volt power selection “L”: with, “H”: without
65	PREOUTMENU/NCO	I/O	Pre-out (4 V/5.5 V) menu selection “L”: with, “H”: without set up signal input
66	AMPATT	O	Power amp ATT control signal output to power amp (IC751)
67	AMPON	O	Power amp standby control signal output to power amp (IC751)
68	CDMD ON	O	CD mechanism deck power supply control signal output
69	ATT	O	System ATT control signal output
70	VOLATT	O	Electrical volume ATT control signal output to electrical volume (IC331)
71 – 73	NCO	O	Not used. (Open)
74	MP3SEL	I	MP3 control select signal input “L”: MP3 CD changer control correspondence, “H”: not correspondence
75	SUB SEL	I	Sub-out function detection signal input “H”: without, “L”: with
76	SW SHIFT	O	Not used in this set. (Open)
77	COLSEL	I	Key illumination color selection detection signal input “L”: amber, “H”: green
78	NCO	O	Not used. (Open)
79	XCD ON	O	CD on signal output “H”: Play, “L”: Loading or standby
80 – 85	NCO	O	Not used. (Open)
86	E2P SIO	I/O	EEPROM serial data signal input/output
87	E2P CKO	O	EEPROM serial clock signal output
88	NCO	O	Not used. (Open)
89	FLASH W	I	Flash microcomputer write detection signal input “L”: Write mode
90	NIL/NS MASK	O	Connect to ground in this set. Noise mask signal output
91	AD ON	O	Key power supply control signal output “L”: key active
92	DOORIND	O	Sub panel power supply control signal output
93	ILLON	O	Illumination power supply control signal output
94	DOOR SW	I	Front panel open/close detection signal input “L”: Close, “H”: Open
95	DAVSS	—	Ground pin
96	RE IN1	I	Rotary encoder signal input from rotary encoder (RE901)
97	RE IN0	I	Rotary encoder signal input from rotary encoder (RE901)
98	RC IN1	I	Rotary commander shift key signal input from remote in jack (J561) “L”: Shift key on
99	NCO	O	Not used. (Connect to ground.)
100	DAVDD	—	Power supply pin (+5 V)

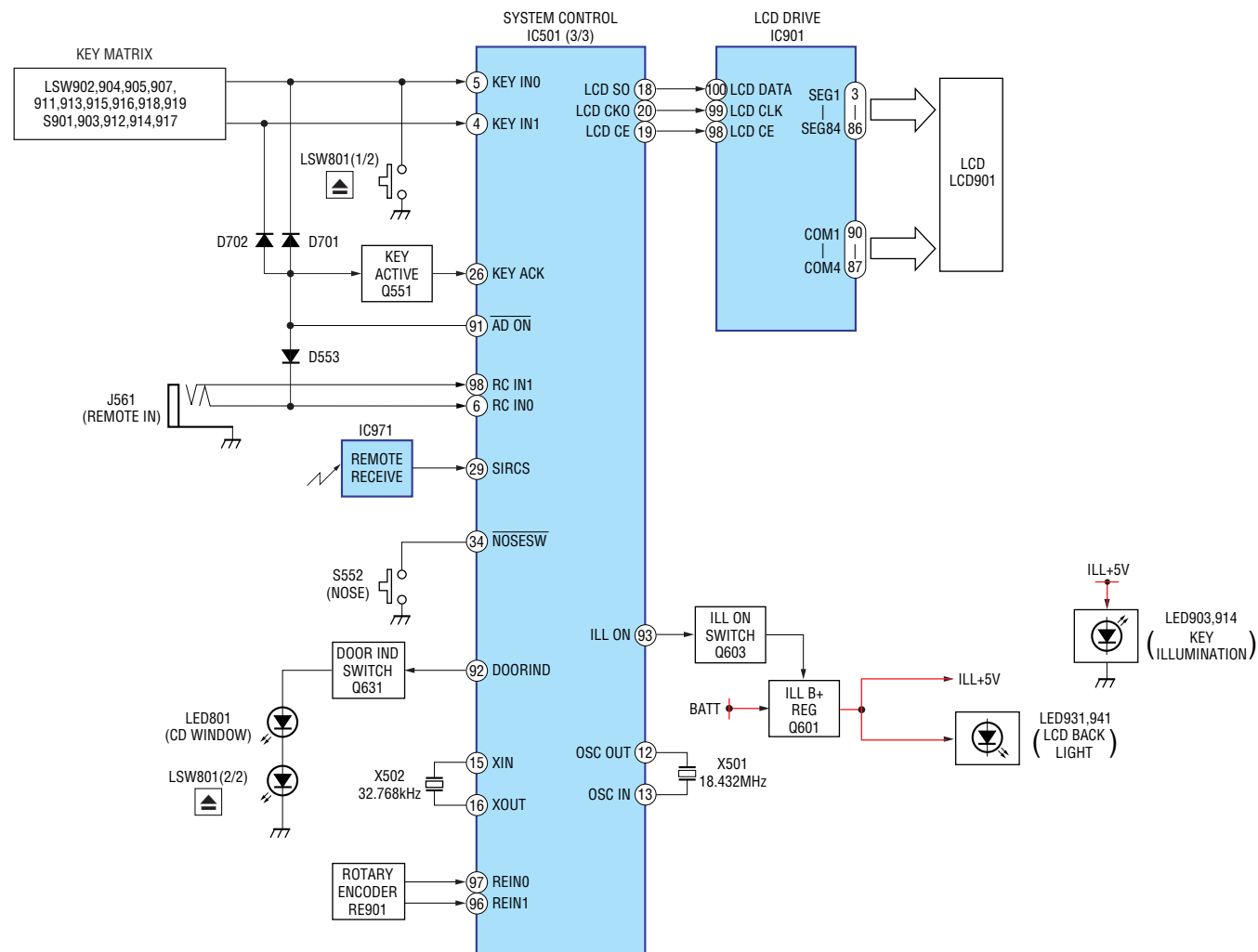
3-2. BLOCK DIAGRAM — CD SECTION —



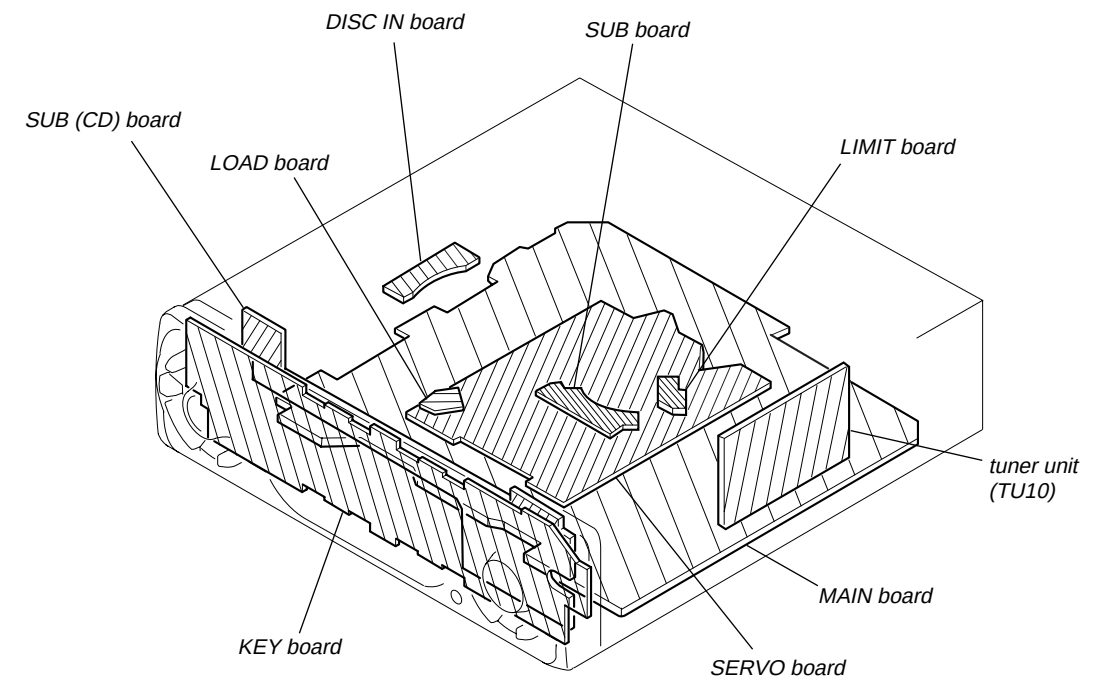
3-3. BLOCK DIAGRAM — TUNER SECTION —



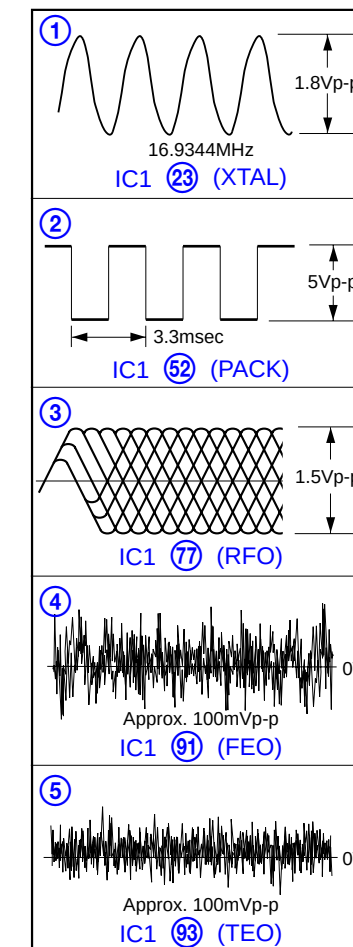
3-4. BLOCK DIAGRAM — DISPLAY SECTION —



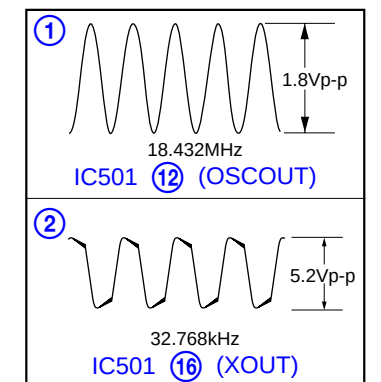
3-5. CIRCUIT BOARDS LOCATION



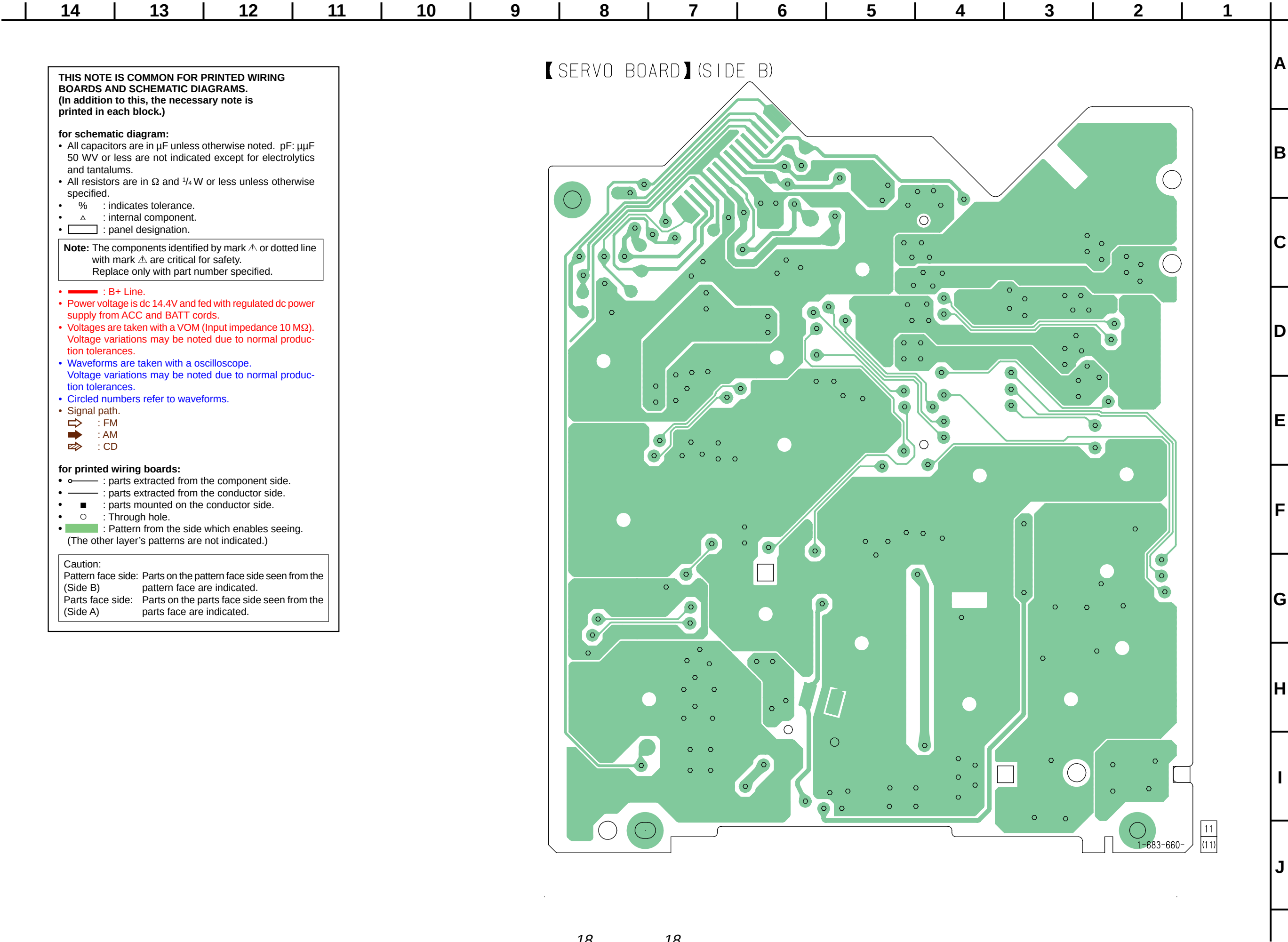
• **Waveforms**
— **Servo Board** —
(MODE: CD PLAY)

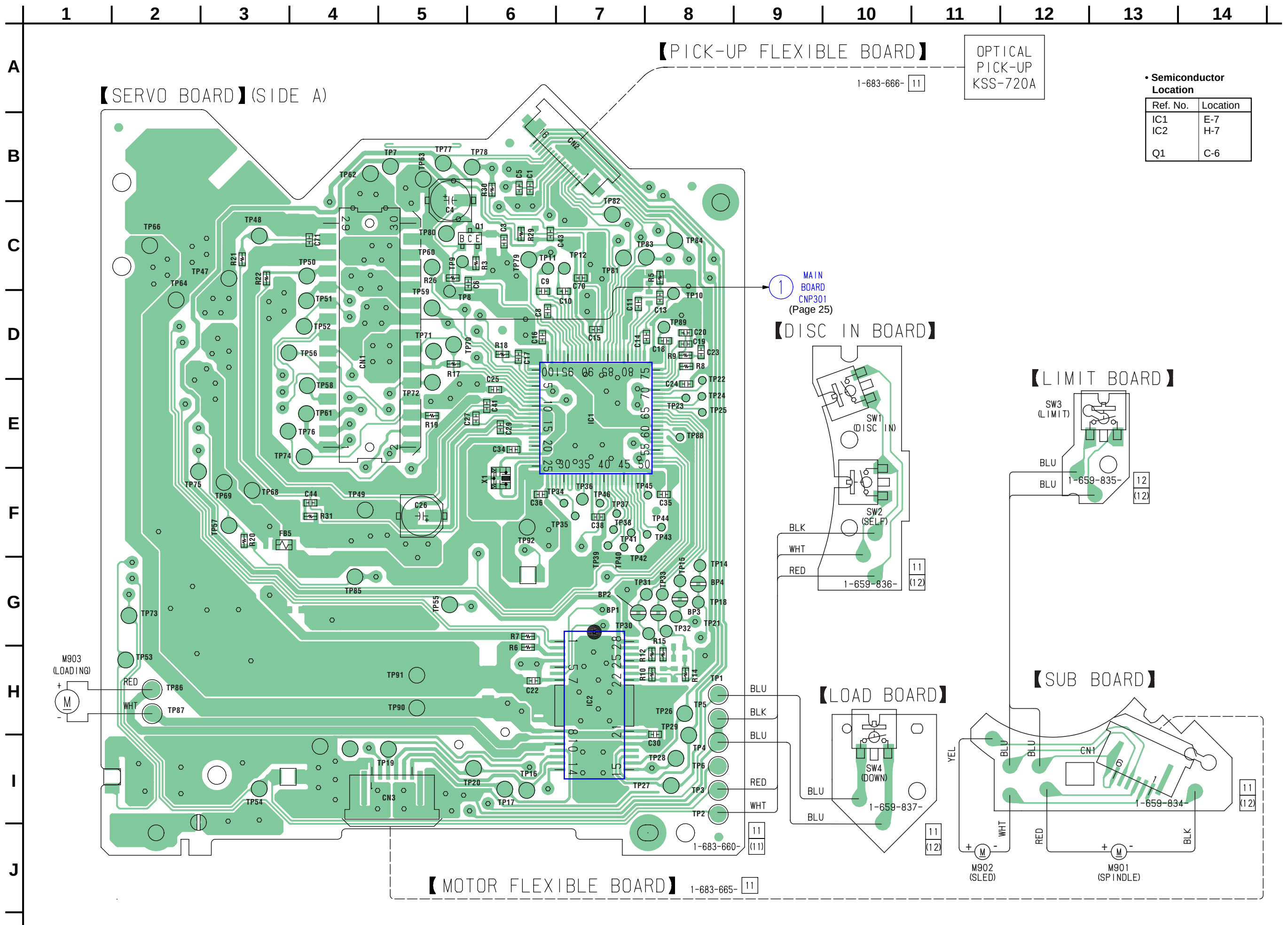


— Main Board —



3-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 17 for Circuit Boards Location.



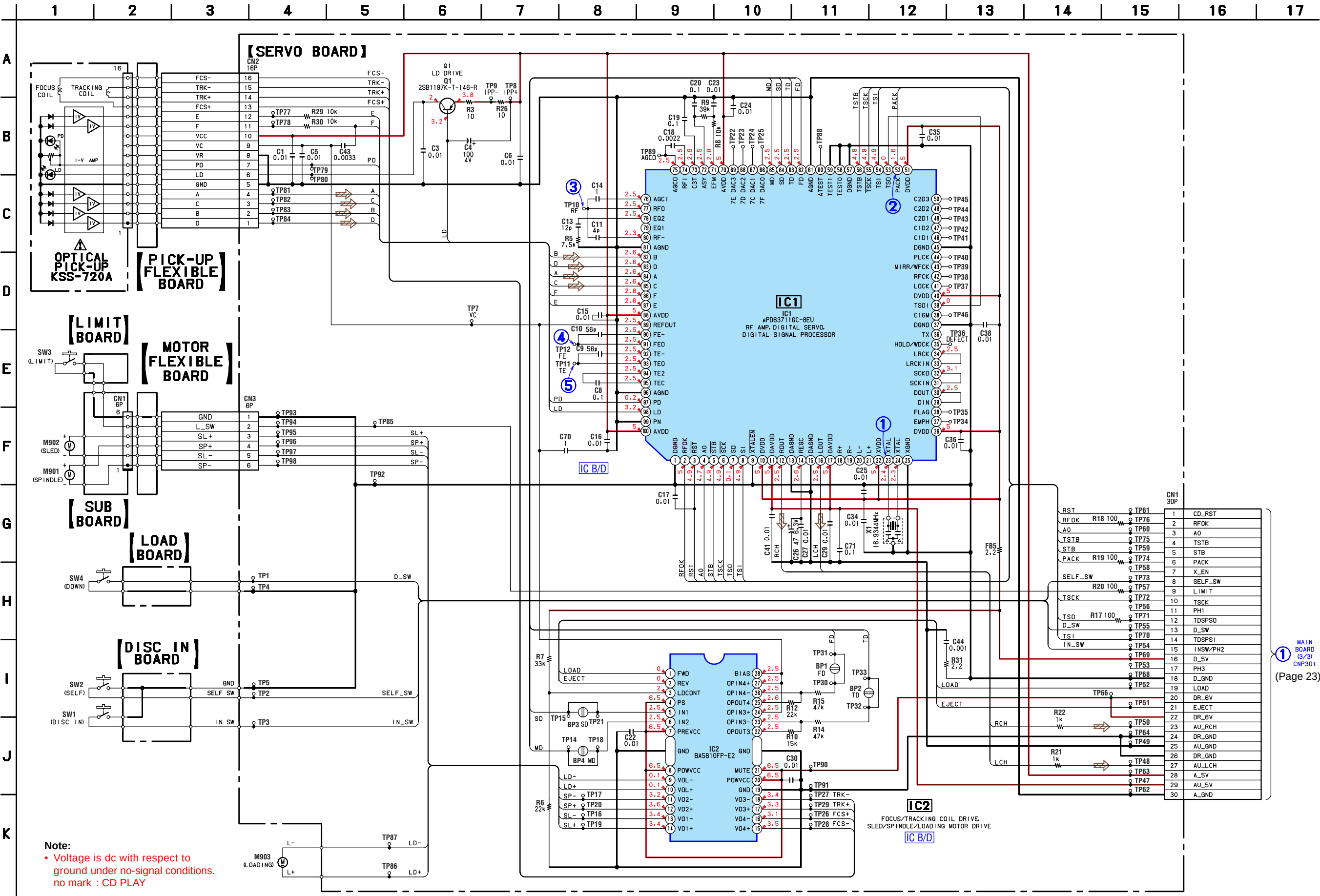


• Semiconductor Location

Ref. No.	Location
IC1	E-7
IC2	H-7
Q1	C-6

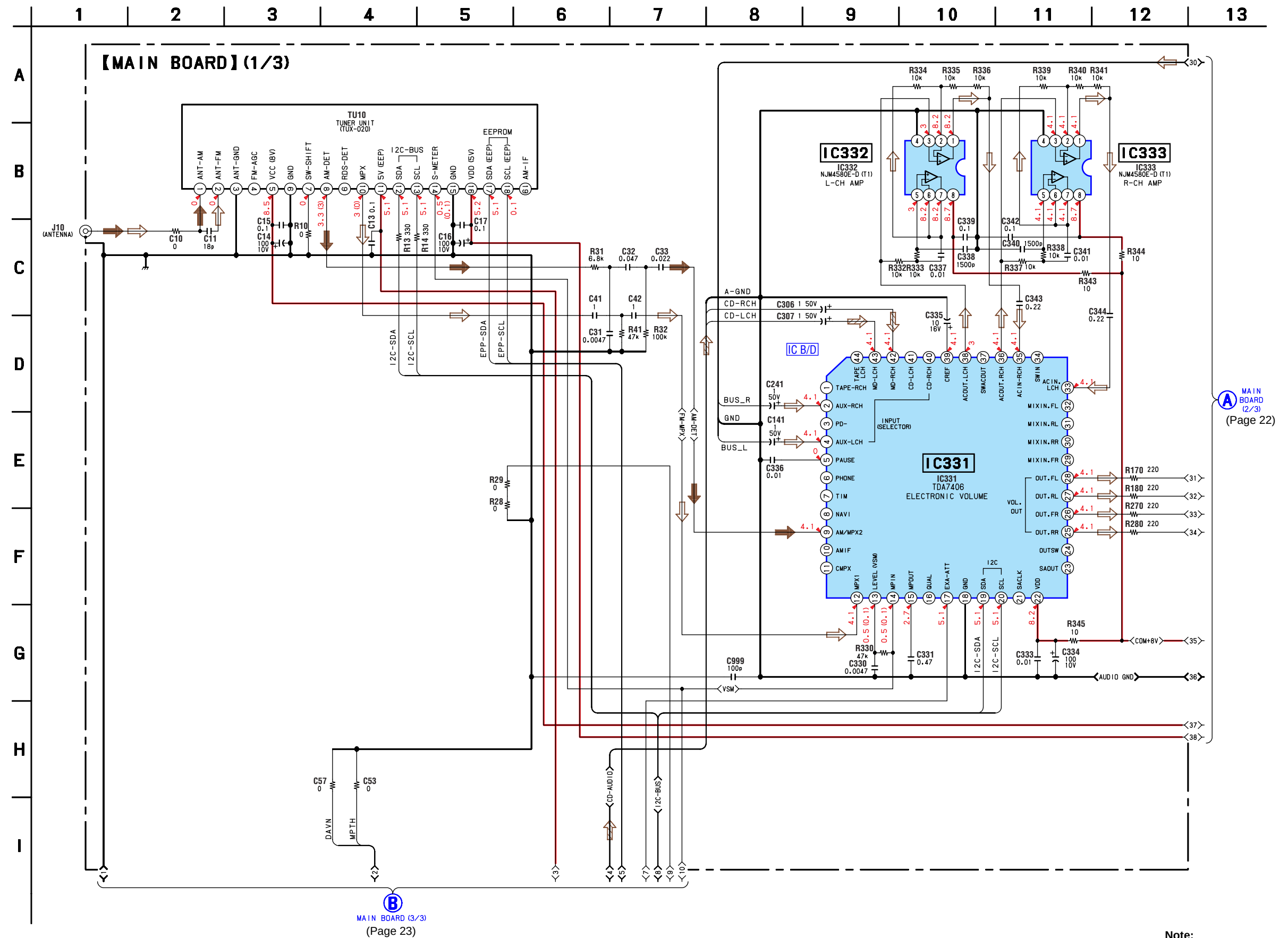
• Refer to page 17 for Waveforms.

3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION — • Refer to page 30 for IC Block Diagrams.

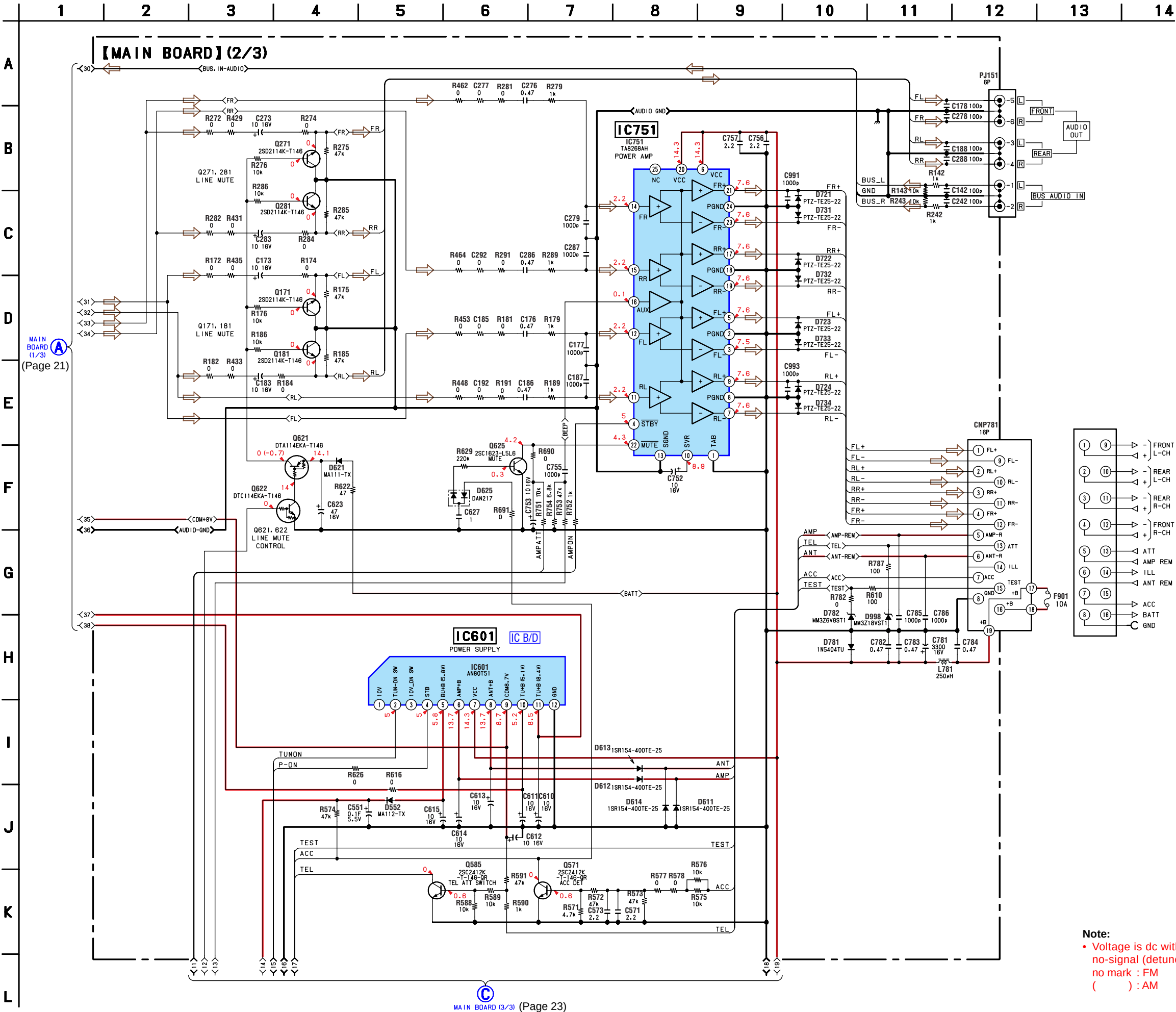


MAIN BOARD (3/3) CNP301 (Page 23)

3-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 31 for IC Block Diagrams.

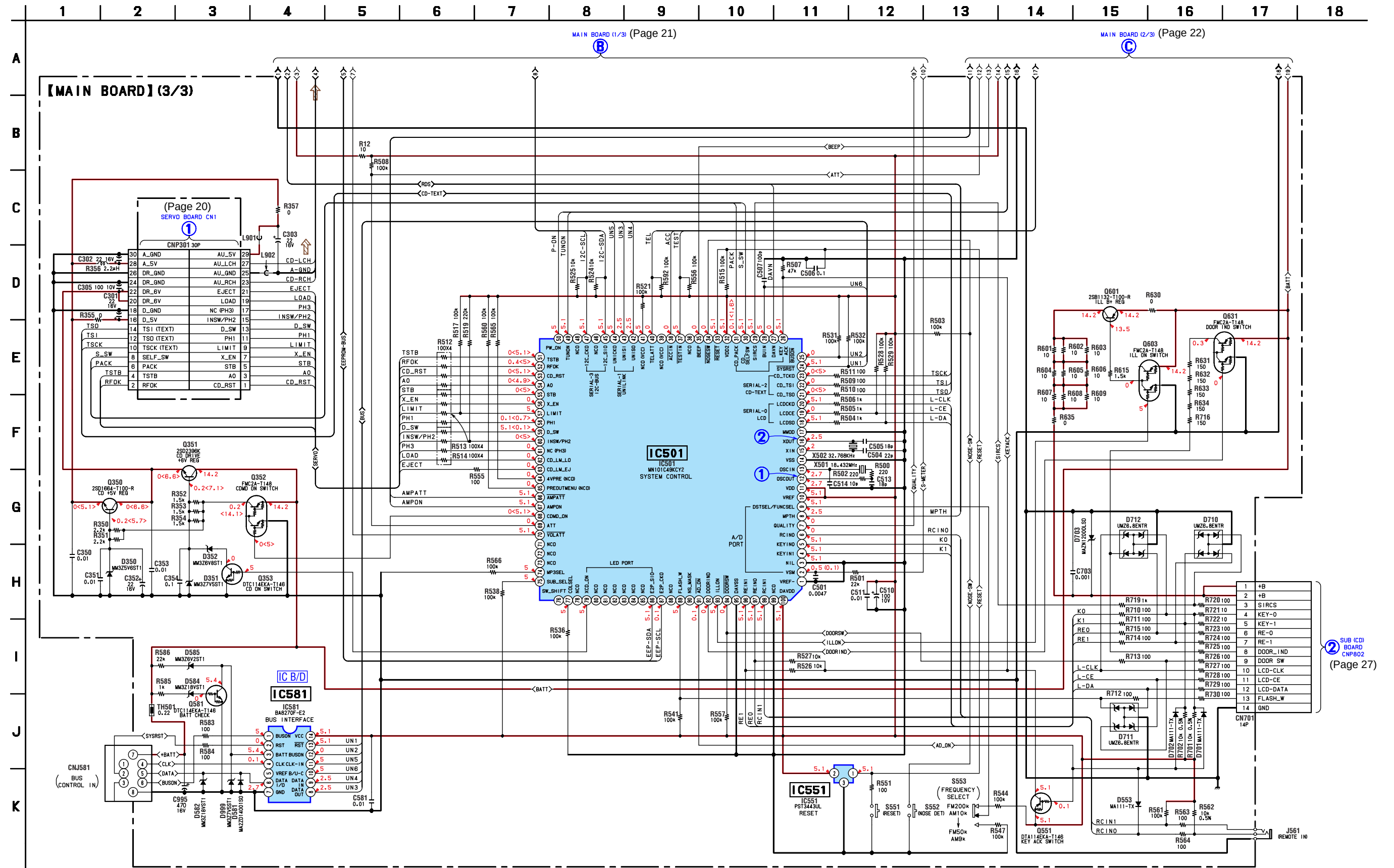


3-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 32 for IC Block Diagram.



- Refer to page 17 for Waveforms.

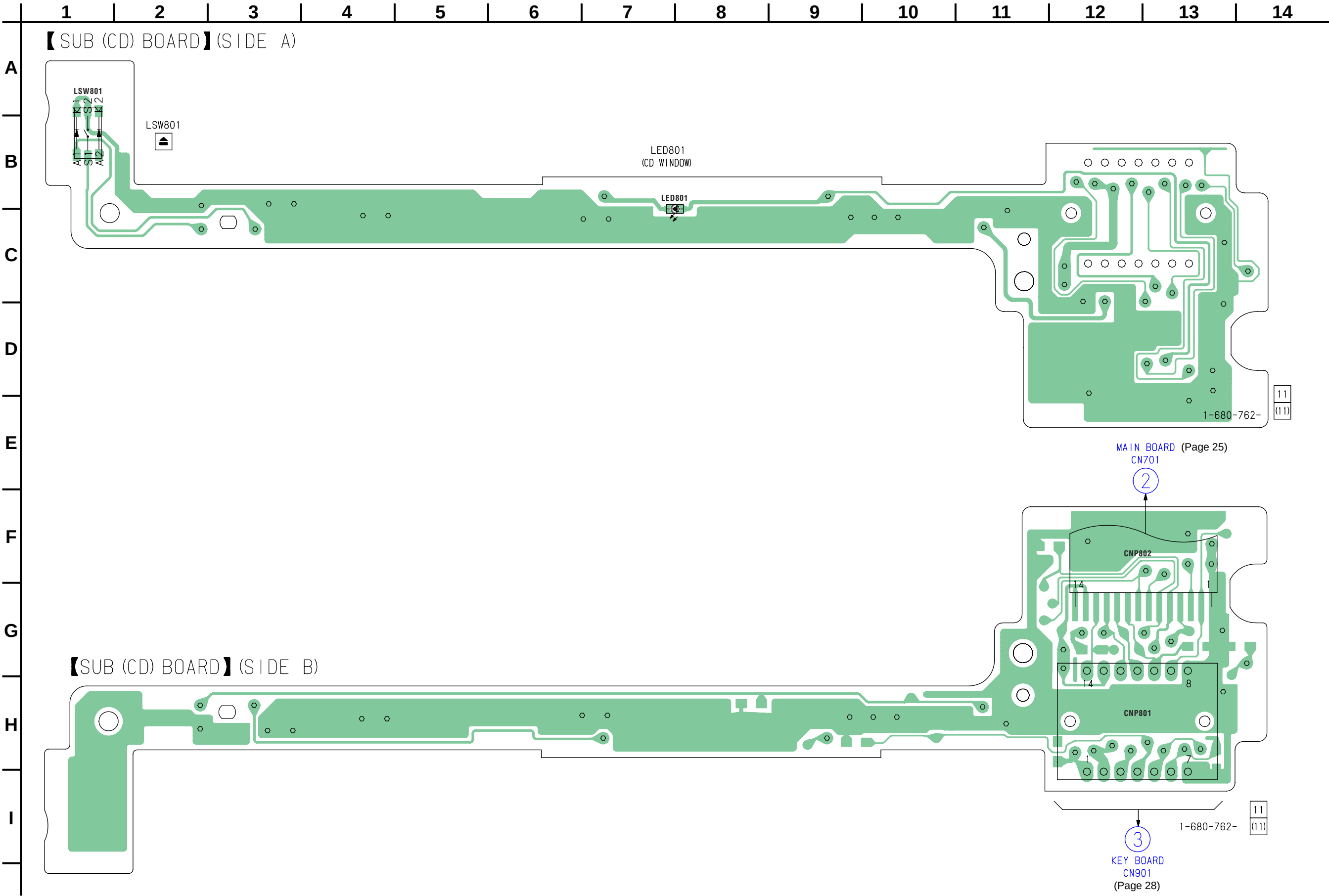
3-10. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • Refer to page 32 for IC Block Diagram.



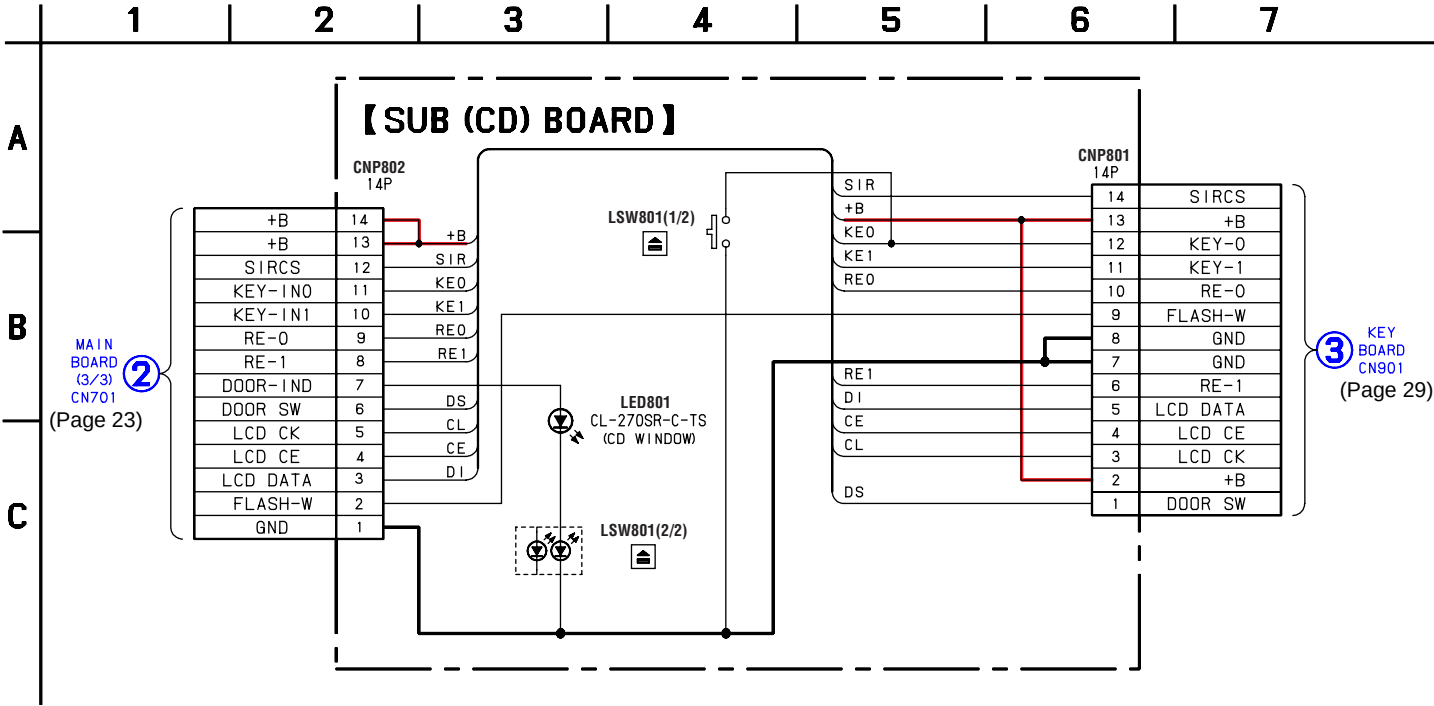
Note:

- Voltage is dc with respect to ground under no-signal (detuned) condition.
- no mark : FM
() : AM
< > : CD PLAY

3-12. PRINTED WIRING BOARD — RELAY SECTION — • Refer to page 17 for Circuit Boards Location.



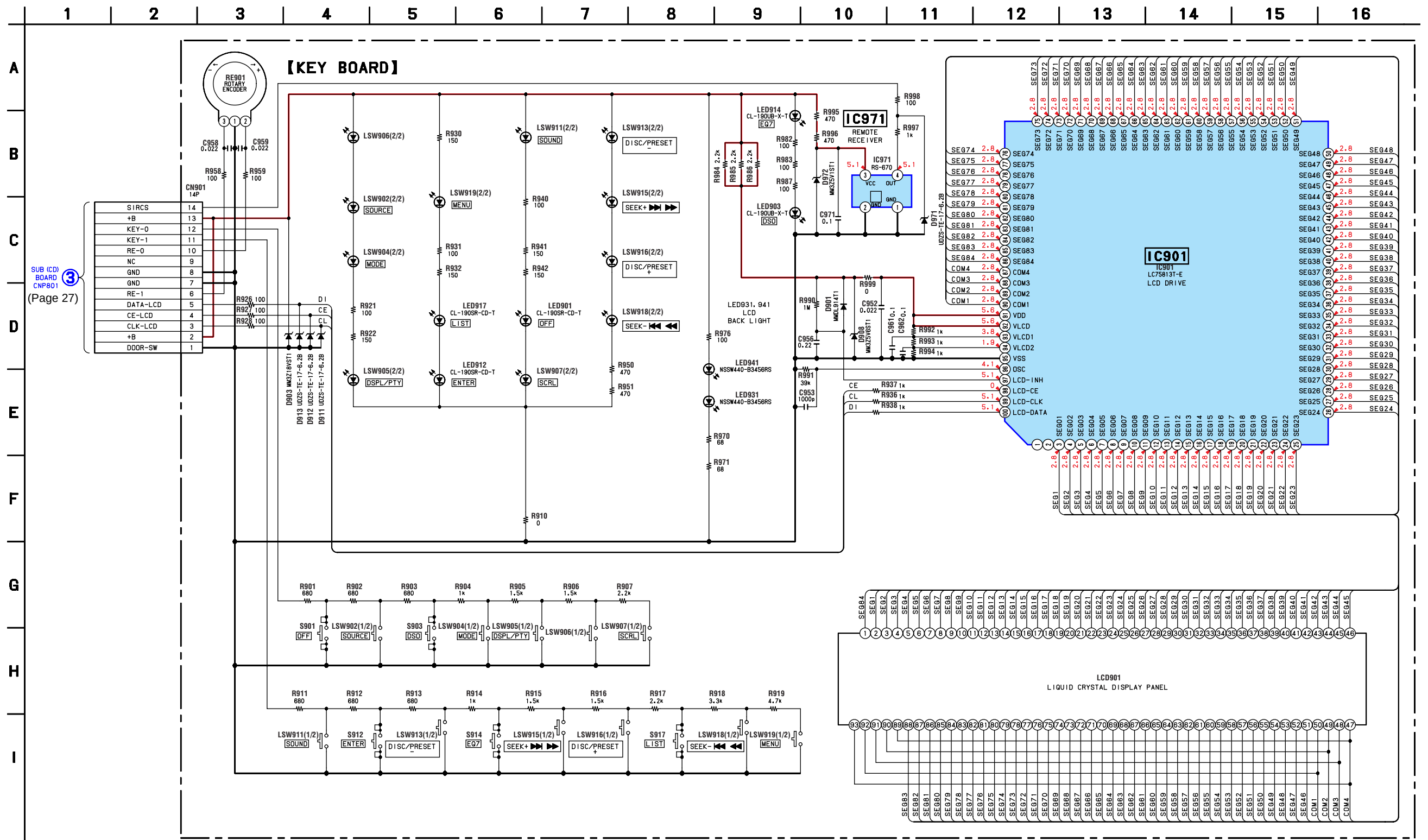
3-13. SCHEMATIC DIAGRAM — RELAY SECTION —





Ref. No.	Location	Ref. No.	Location
D901	F-9	IC971	A-4
D903	F-4		
D908	G-9	LED901	B-13
D911	F-5	LED903	C-14
D912	F-5	LED912	B-2
D913	E-5	LED914	C-1
D971	G-4	LED917	D-2
D972	G-5	LED931	C-11
		LED941	C-4
IC901	F-7		

3-15. SCHEMATIC DIAGRAM — KEY SECTION —

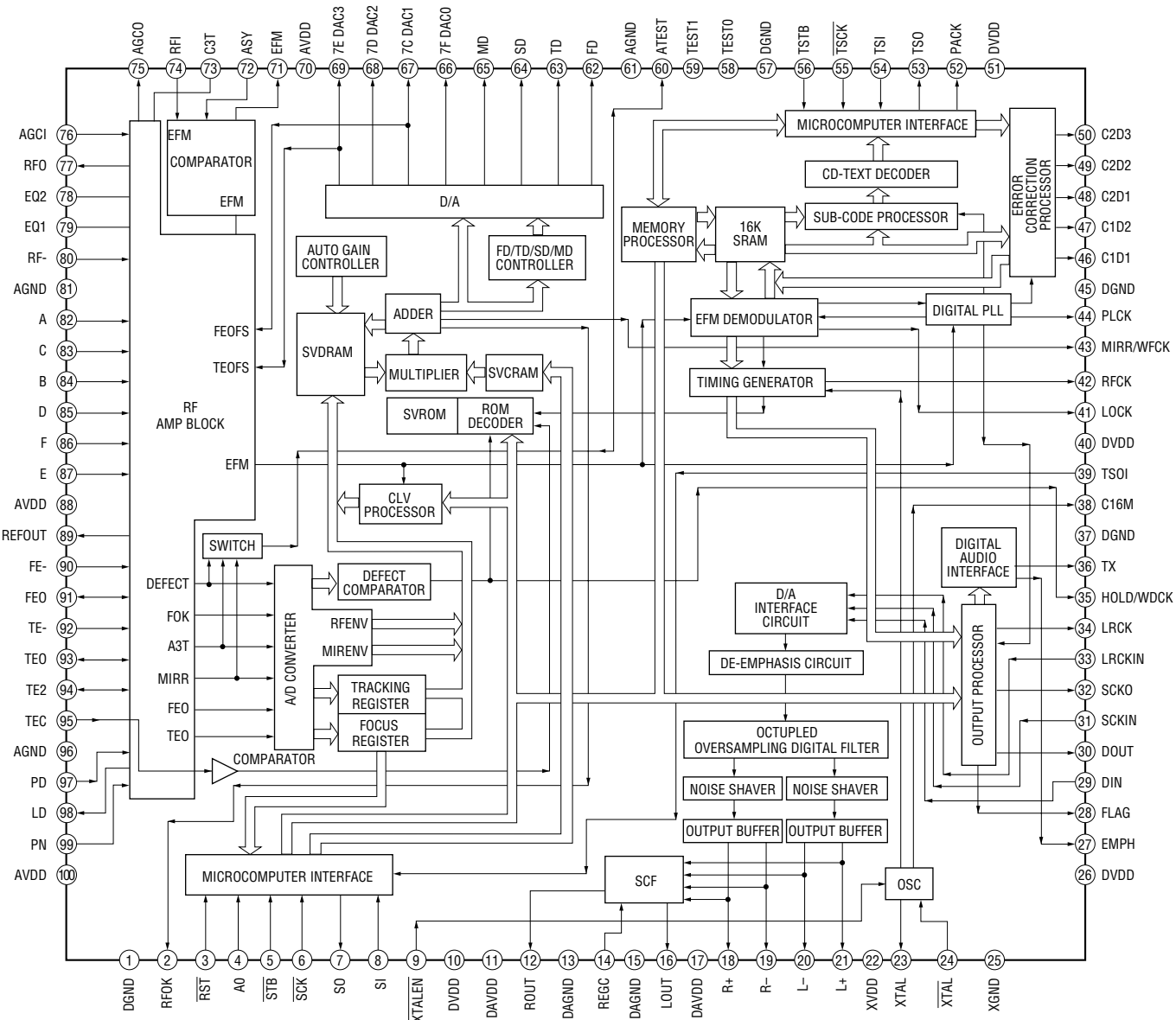


Note:

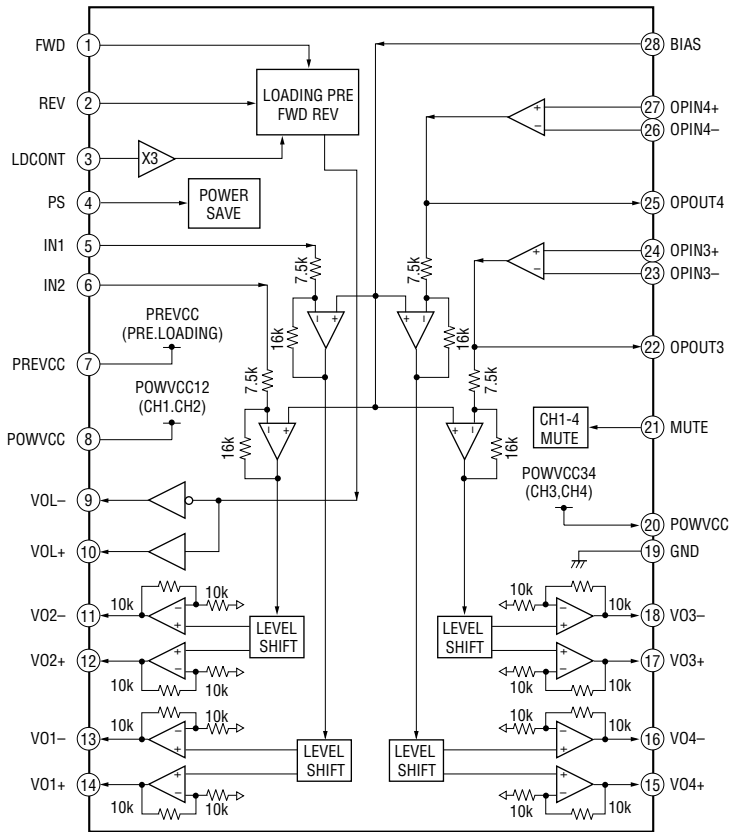
- Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM

• IC BLOCK DIAGRAMS

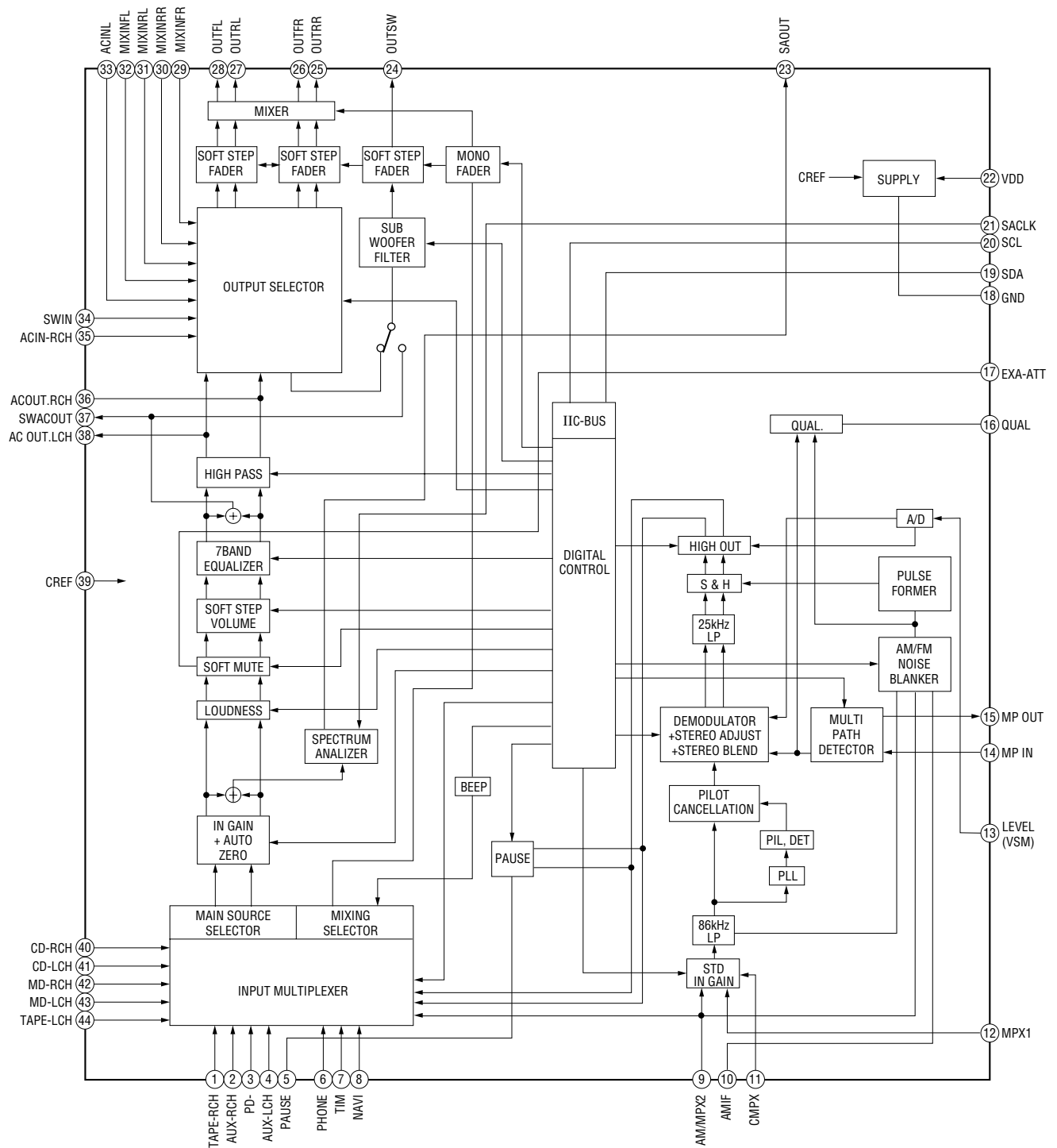
IC1 μ PD63711GC-8EU



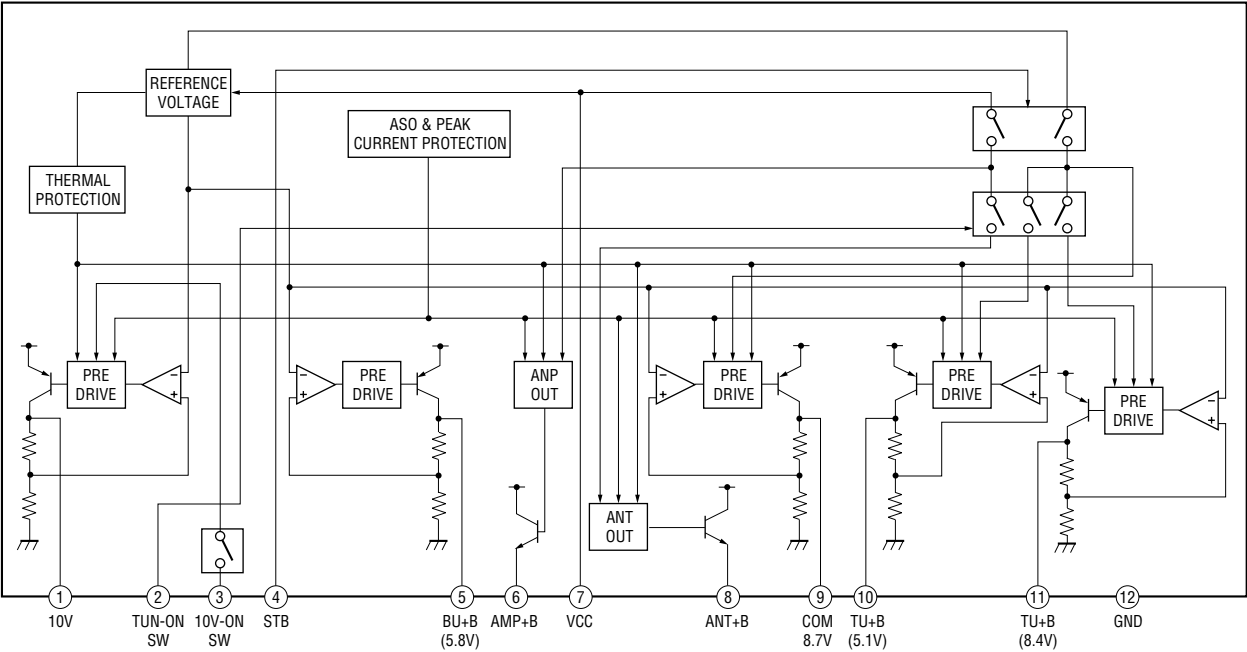
IC2 BA5810FP-E2



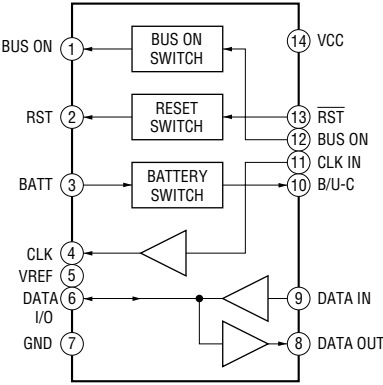
IC331 TDA7406



IC601 AN80T51



IC581 BA8270F-E2



SECTION 4

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

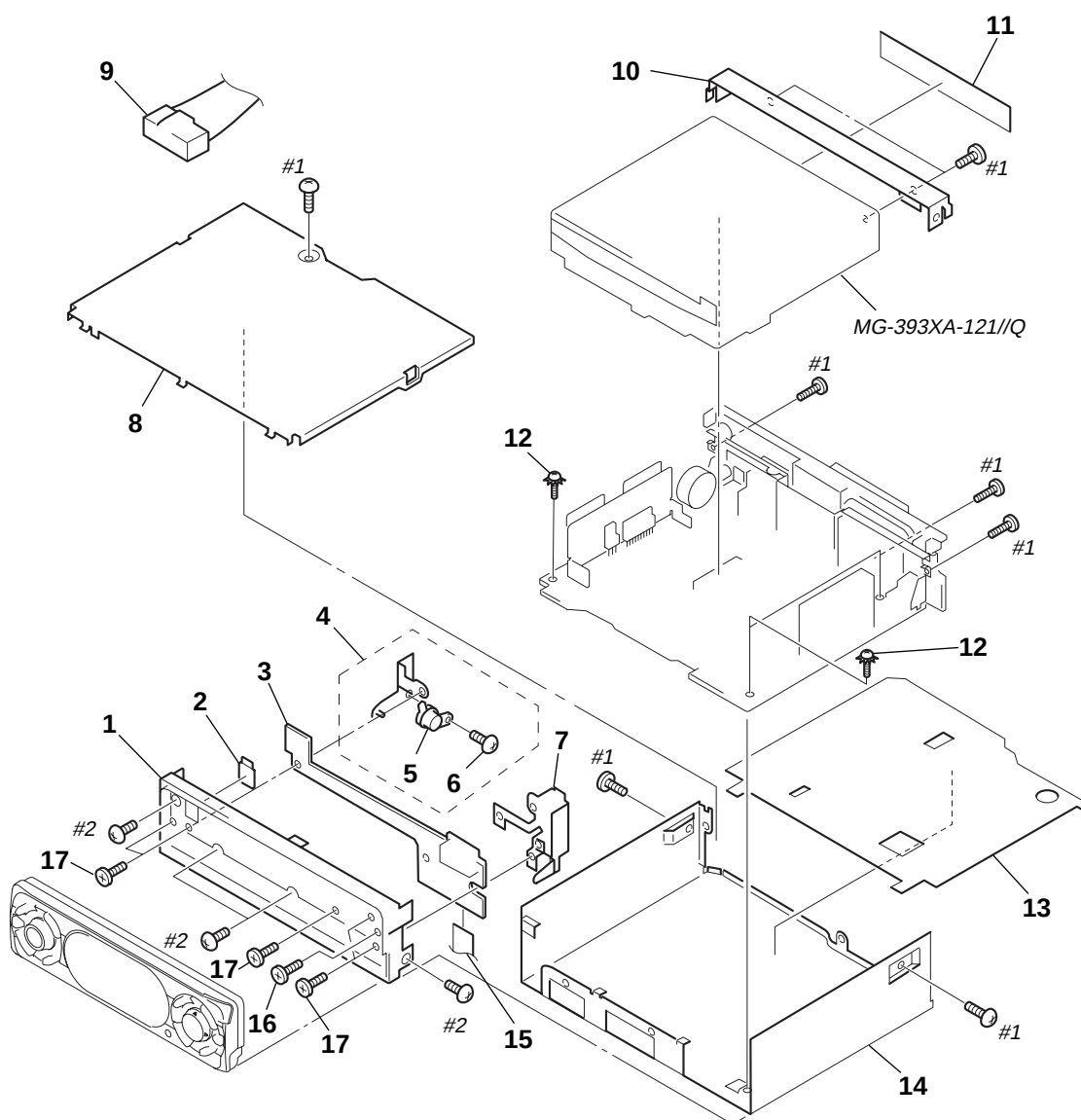
- Color Indication of Appearance Parts
Example :

KNOB, BALANCE (WHITE) ... (RED)

↑ ↑
 Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

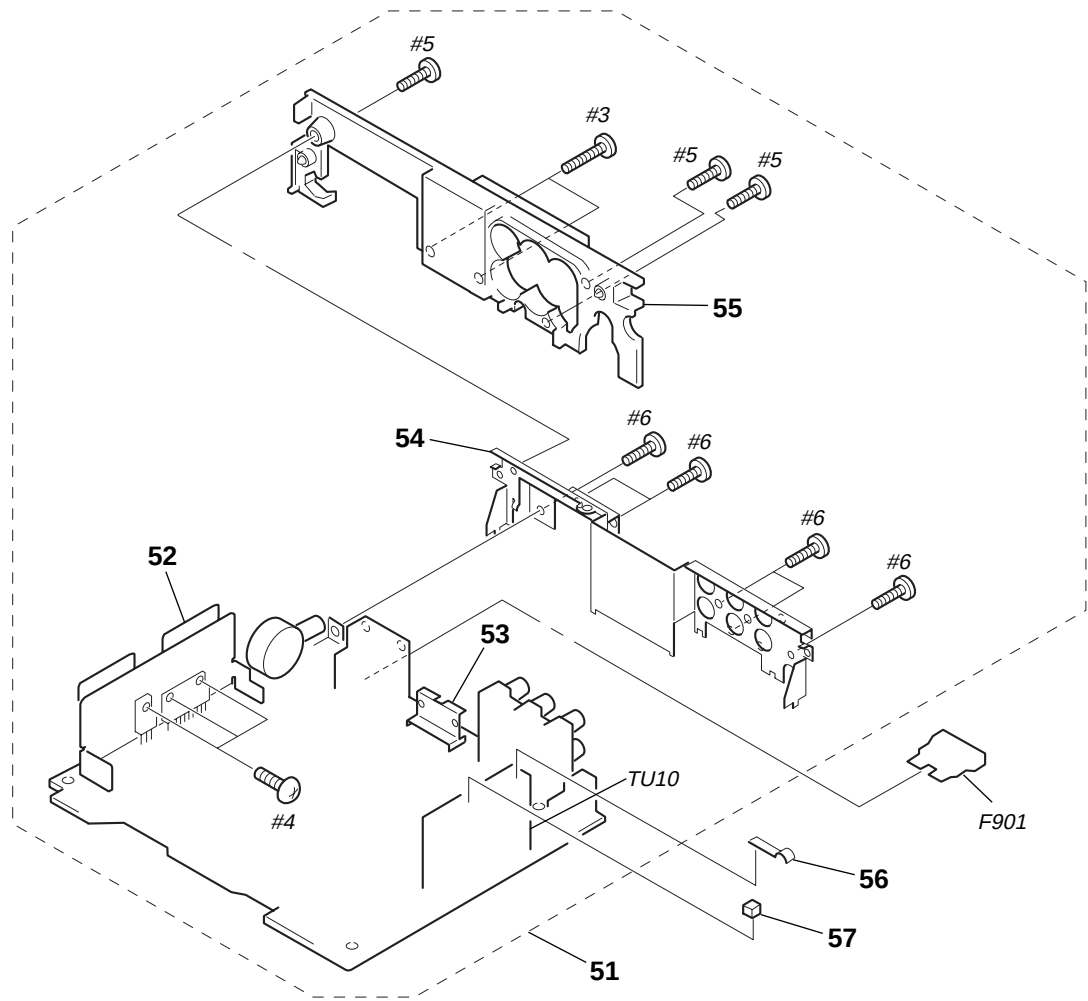
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

4-1. CHASSIS SECTION



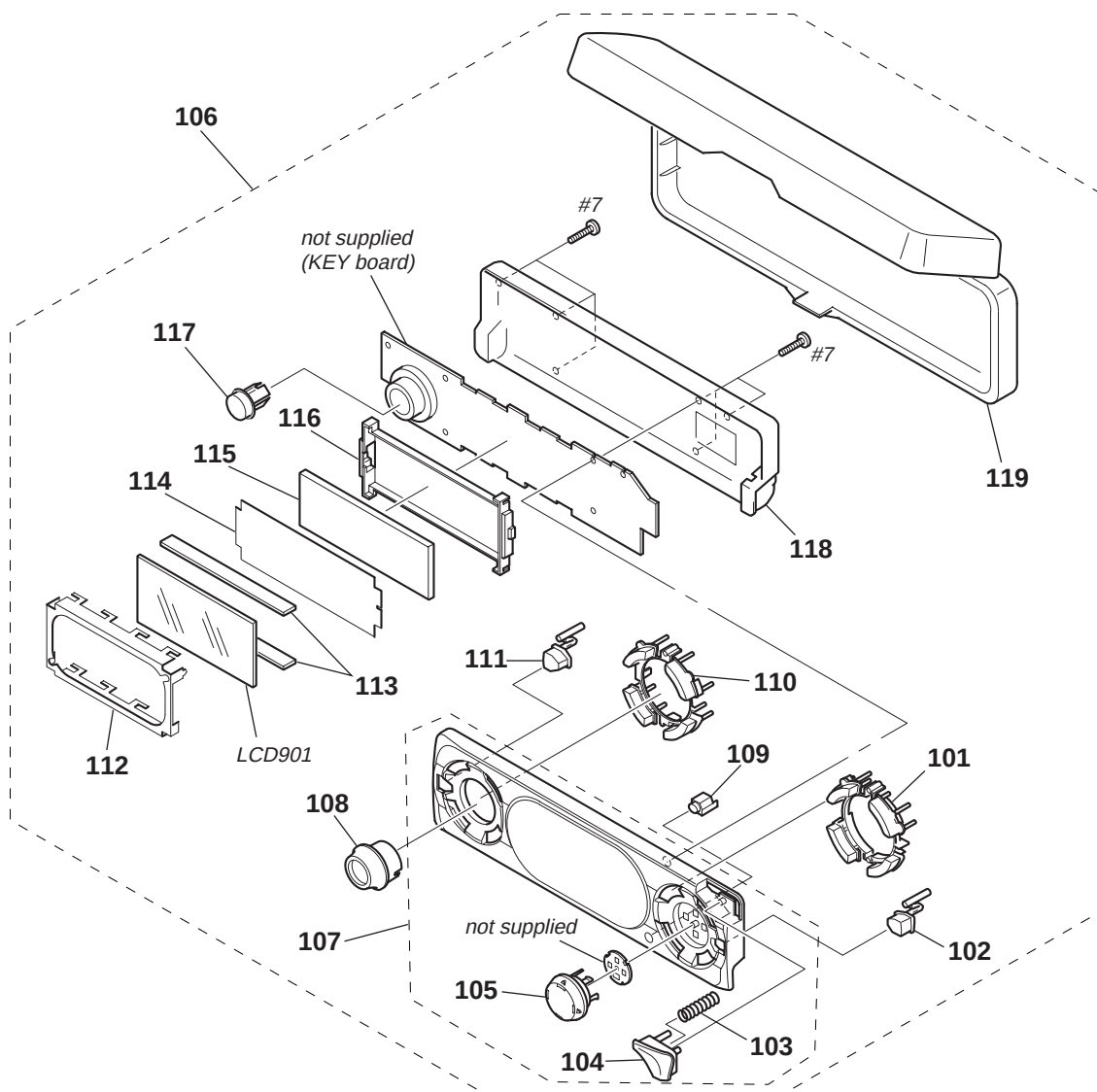
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3381-275-1	PANEL ASSY, SUB		* 11	3-227-287-01	SHEET, DUST PROTECTION	
2	3-040-990-01	BUTTON (EJECT)		12	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
* 3	1-680-762-11	SUB (CD) BOARD		* 13	3-224-755-01	SHEET, INSULATING	
4	X-3376-699-6	GEAR ASSY		14	3-223-781-21	CHASSIS	
5	3-030-909-03	DAMPER, OIL		15	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE) (CNP802)	
6	3-713-786-51	SCREW +P 2X3		16	3-047-812-01	SCREW (LOCK)	
7	X-3377-621-8	LOCK ASSY		17	3-042-244-01	SCREW (T)	
8	3-223-782-21	COVER		#1	7-685-790-01	SCREW +PTT 2.6X4 (S)	
9	1-776-207-82	CORD (WITH CONNECTOR) (POWER)		#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
10	3-041-012-11	BRACKET (CD)					

4-2. MAIN BOARD SECTION



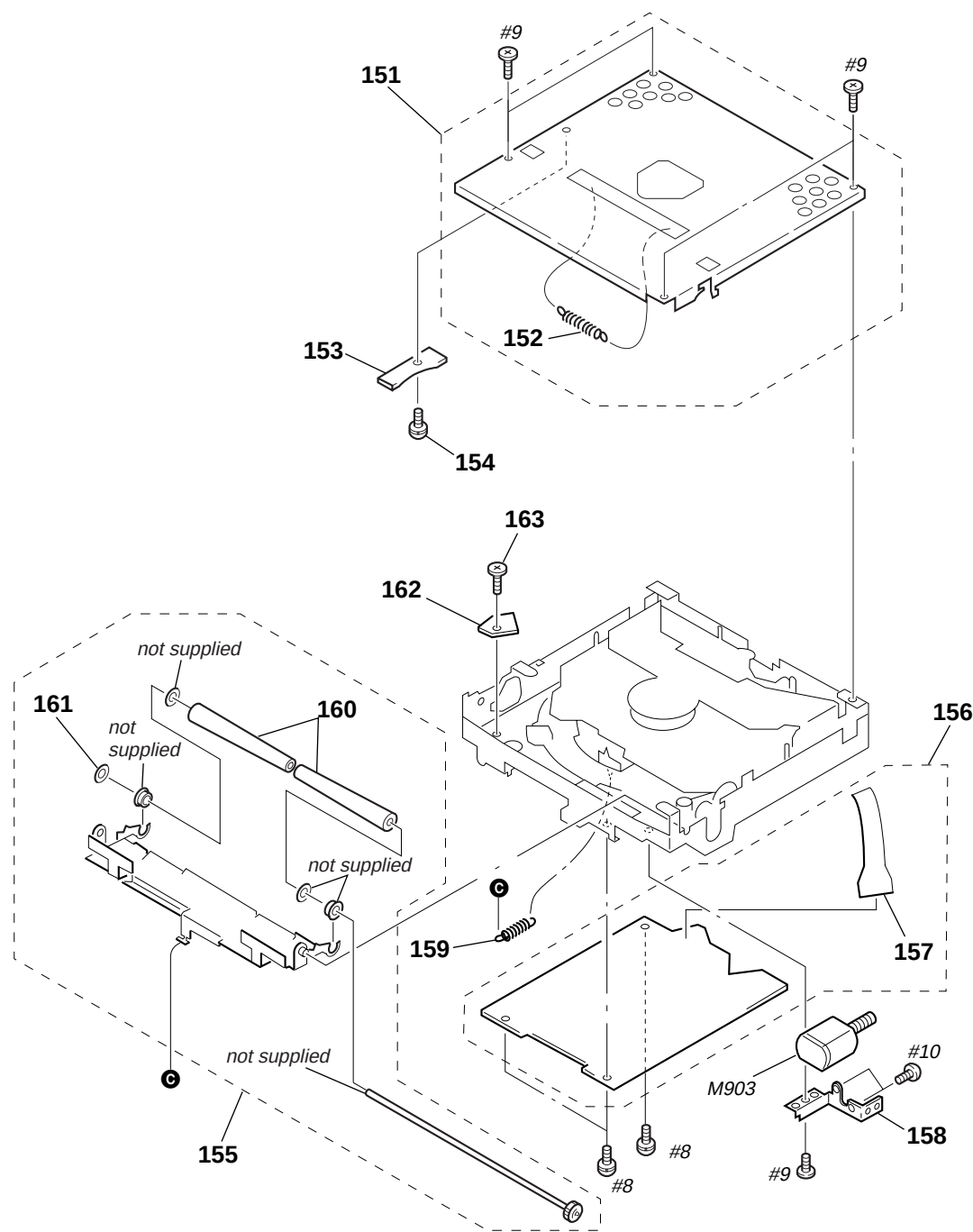
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-3340-295-A	MAIN BOARD, COMPLETE		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
52	3-236-285-01	HEAT SINK (REG)		TU10	A-3220-812-A	TUNER UNIT (TUX-020)	
* 53	3-040-998-01	BRACKET (IC)		#3	7-685-797-09	SCREW +PTT 2.6X16 (S)	
* 54	3-223-783-01	CHASSIS (BACK)		#4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
* 55	3-223-780-11	HEAT SINK		#5	7-685-794-09	SCREW +PTT 2.6X10 (S)	
* 56	3-045-878-01	PLATE (TU), GROUND		#6	7-685-793-09	SCREW +PTT 2.6X8 (S)	
* 57	3-045-877-02	CUSHION (TU)					

4-3. FRONT PANEL SECTION



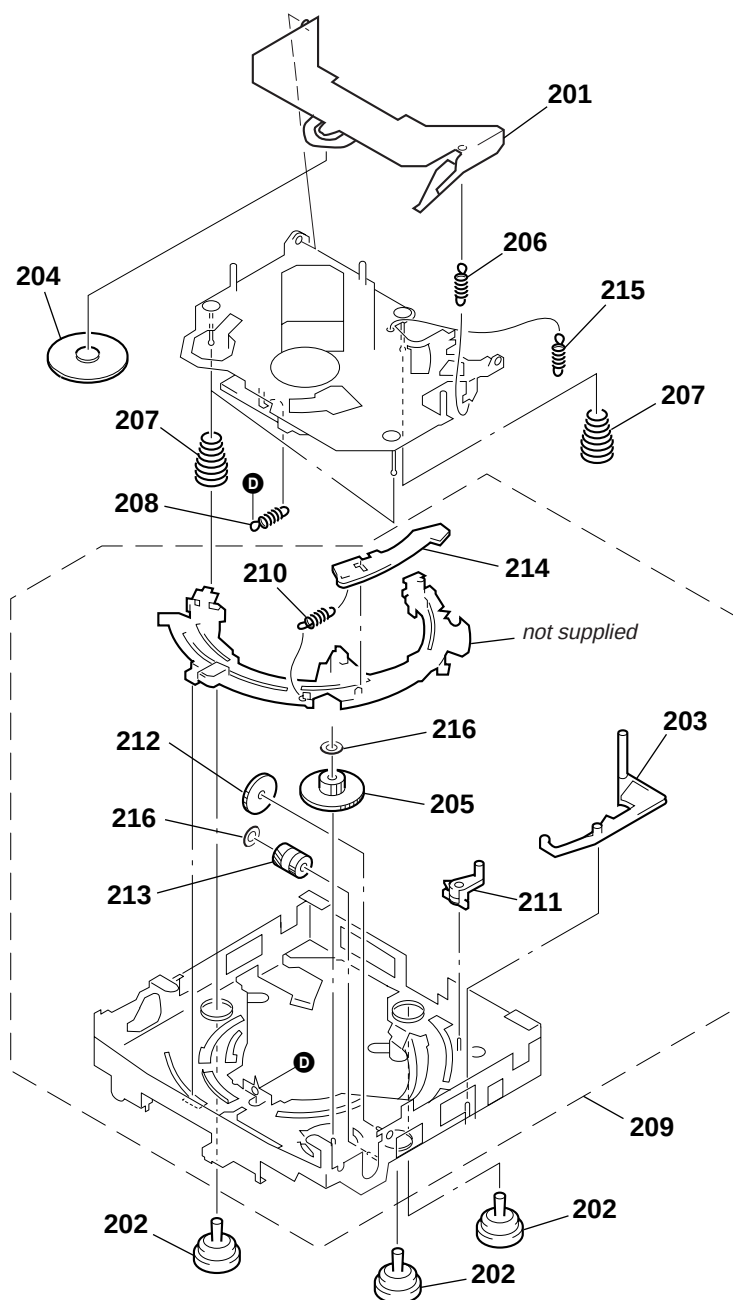
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-236-267-11	BUTTON (R)		112	3-236-284-01	PLATE (LCD), GROUND	
102	3-236-269-01	BUTTON (EQ7)		113	1-694-882-11	CONDUCTIVE BOARD, CONNECTION	
103	3-037-267-01	SPRING (OPEN)		114	3-236-438-01	ILLUMINATOR (LCD)	
104	3-236-273-01	BUTTON (OPEN)		115	3-236-278-01	PLATE (LCD), LIGHT GUIDE	
105	3-236-271-01	BUTTON (4-DIR)		116	3-236-279-01	HOLDER	
106	A-3290-850-A	PANEL COMPLETE ASSY, FRONT		117	3-236-270-01	BUTTON (SOURCE)	
107	X-3381-918-3	PANEL ASSY, FRONT		118	X-3381-274-2	PANEL ASSY, FRONT BACK	
108	3-236-272-01	KNOB (VOL)		119	X-3378-490-2	CASE (PANEL) ASSY (for FRONT PANEL)	
109	3-236-280-01	WINDOW, RAY CATCHER		LCD901	1-804-619-11	DISPLAY PANEL, LIQUID CRYSTAL	
110	3-236-266-11	BUTTON (L)		#7	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
111	3-236-268-01	BUTTON (WL)					

4-4. CD MECHANISM SECTION (1)
(MG-393XA-121//Q)



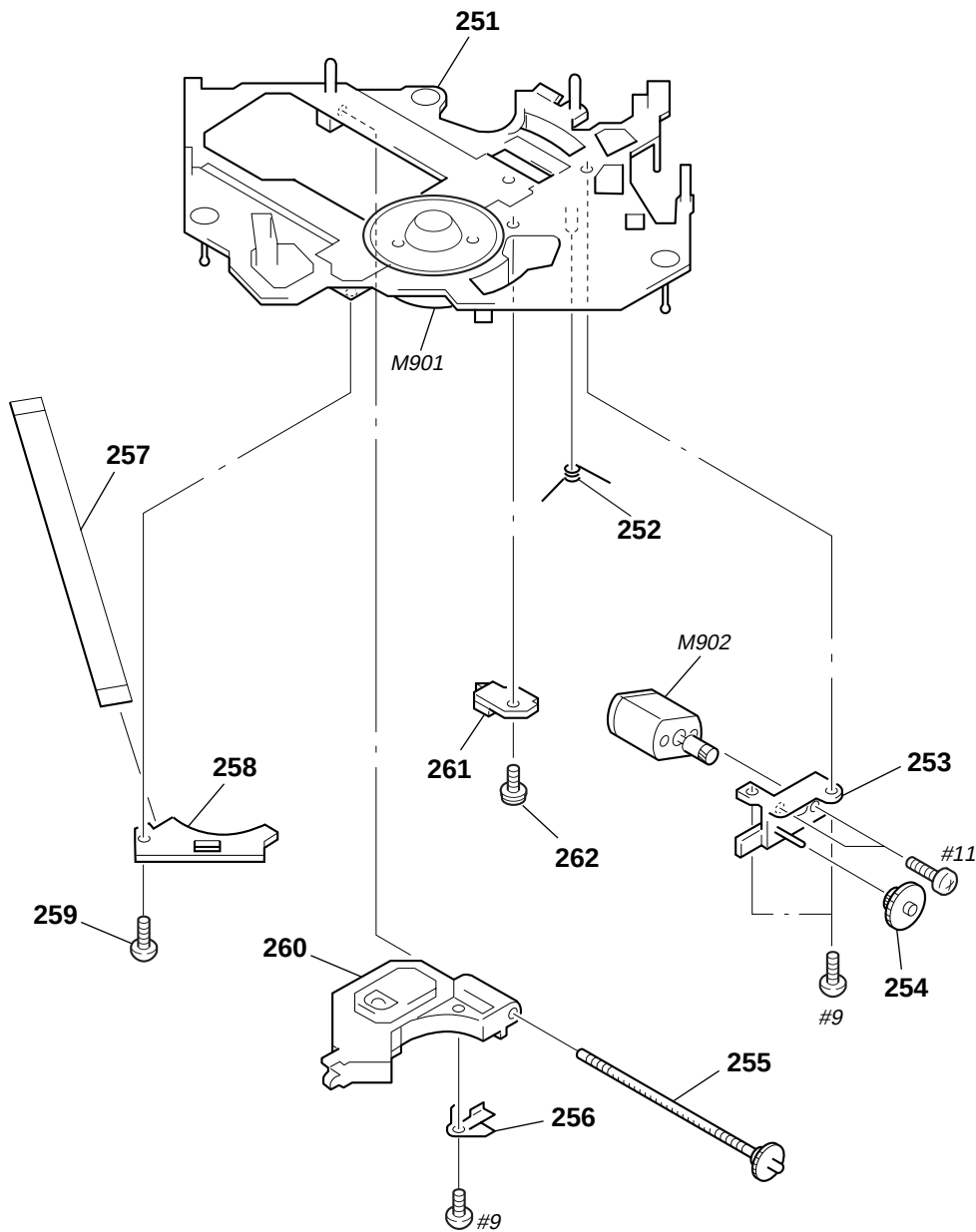
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3315-247-B	CHASSIS (T.U) ASSY		160	3-933-152-03	ROLLER (S)	
152	3-931-909-01	SPRING (LR), TENSION		161	3-931-913-11	RING (ROLLER), RETAINING	
153	1-659-836-11	DISC IN BOARD		162	1-659-837-11	LOAD BOARD	
154	3-338-737-01	SCREW (2X3), +PS		163	3-338-737-01	SCREW (2X3), +PS	
155	A-3315-040-A	ROLLER ASSY, ARM		M903	A-3315-039-A	MOTOR SUB ASSY, LD (LOADING)	
156	A-3283-270-A	SERVO BOARD, COMPLETE		#8	7-628-253-00	SCREW +PS 2X4	
157	1-683-666-11	PICK-UP FLEXIBLE BOARD		#9	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
* 158	3-039-629-02	BRACKET (MOTOR)		#10	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE3	
159	3-225-784-01	SPRING (RA3), TENSION					

4-5. CD MECHANISM SECTION (2) (MG-393XA-121/Q)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-3378-956-8	ARM ASSY, CHUCKING		209	A-3315-243-D	CHASSIS (M) ASSY	
202	3-931-897-61	DAMPER (T)		210	3-220-180-01	SPRING (TR2), TENSION	
203	3-039-627-01	LEVER (D)		211	3-931-881-03	LEVER (LOCK)	
204	3-040-165-02	RETAINER (DISC)		212	3-931-882-02	GEAR (MDL)	
205	3-014-727-01	WHEEL (LW), WORM		213	3-007-537-11	WHEEL (U), WORM	
206	3-931-895-01	SPRING (CH), TENSION		214	3-039-626-01	LEVER (TR)	
207	3-931-898-01	SPRING (FL), COMPRESSION		215	3-032-484-01	SPRING (KR1), TENSION	
208	3-032-483-02	SPRING (KF1), TENSION		216	3-018-272-01	WASHER	

4-6. CD MECHANISM SECTION (3)
(MG-393XA-121//Q)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	X-3381-611-1	CHASSIS (OP) ASSY (including M901)		259	3-909-607-01	SCREW	
252	3-043-494-01	SPRING (SL), TORSION		$\triangle$ 260	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP	
253	3-040-170-01	BASE (DRIVING)		261	1-659-835-12	LIMIT BOARD	
254	3-040-419-01	GEAR (MIDWAY)		262	3-338-737-01	SCREW (2X3), +PS	
255	A-3291-669-A	SHAFT (FEED) ASSY		M902	A-3291-674-A	MOTOR ASSY, SLED (SLED)	
256	3-025-743-01	SPRING (FEED), LEAF		#9	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
257	1-659-880-11	MOTOR FLEXIBLE BOARD		#11	7-627-850-28	SCREW, PRECISION +P 1.4X3	
258	1-659-834-11	SUB BOARD					

SECTION 5 ELECTRICAL PARTS LIST

DISC IN

KEY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-659-836-11	DISC IN BOARD *****				< LIQUID CRYSTAL DISPLAY >	
		< SWITCH >		LCD901	1-804-619-11	DISPLAY PANEL, LIQUID CRYSTAL	
						< DIODE >	
SW1	1-529-566-31	SWITCH, PUSH (1 KEY) (DISC IN)		LED901	8-719-061-16	LED CL-190SR-CD-T (OFF)	
SW2	1-529-566-31	SWITCH, PUSH (1 KEY) (SELF)		LED903	8-719-080-04	LED CL-190UB-X-T (DSO)	
*****				LED912	8-719-061-16	LED CL-190SR-CD-T (ENTER)	
		KEY BOARD *****		LED914	8-719-080-04	LED CL-190UB-X-T (EQ7)	
				LED917	8-719-061-16	LED CL-190SR-CD-T (LIST)	
	1-694-882-11	CONDUCTIVE BOARD, CONNECTION		LED931	6-500-257-01	LED NSSW440-B3456RS (LCD BACK LIGHT)	
*	3-014-602-01	SPACER (A)		LED941	6-500-257-01	LED NSSW440-B3456RS (LCD BACK LIGHT)	
	3-236-278-01	PLATE (LCD), LIGHT GUIDE				< SWITCH >	
	3-236-279-01	HOLDER		LSW902	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SOURCE)	
	3-236-284-01	PLATE (LCD), GROUND		LSW904	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (MODE)	
				LSW905	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (DSPL/PTY)	
	3-236-438-01	ILLUMINATOR (LCD)		LSW906	1-771-883-11	SWITCH, TACTILE (WITH LED)	
		< CAPACITOR >		LSW907	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SCRL)	
C952	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V		LSW911	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (SOUND)	
C953	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		LSW913	1-771-476-11	SWITCH, KEYBOARD (WITH LED)	
C956	1-115-467-11	CERAMIC CHIP 0.22uF 10% 10V				(DISC/PRESET -)	
C958	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V		LSW915	1-771-476-11	SWITCH, KEYBOARD (WITH LED)	
C959	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V				(SEEK + ►►► ►►)	
C961	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LSW916	1-771-883-11	SWITCH, TACTILE (WITH LED)	
C962	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V				(DISC/PRESET +)	
C971	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LSW918	1-771-476-11	SWITCH, KEYBOARD (WITH LED)	
		< CONNECTOR >				(SEEK - ◄◄◄ ◄◄)	
CN901	1-794-065-22	PLUG, CONNECTOR 14P		LSW919	1-771-476-11	SWITCH, KEYBOARD (WITH LED) (MENU)	
		< DIODE >				< RESISTOR >	
D901	8-719-081-97	DIODE MMDL914T1		R901	1-216-819-11	METAL CHIP 680 5% 1/10W	
D903	8-719-056-93	DIODE UDZ-TE-17-18B		R902	1-216-819-11	METAL CHIP 680 5% 1/10W	
D908	8-719-036-94	DIODE RD5.6SB-T1		R903	1-216-819-11	METAL CHIP 680 5% 1/10W	
D911	8-719-069-56	DIODE UDZS-TE17-6.2B		R904	1-216-821-11	METAL CHIP 1K 5% 1/10W	
D912	8-719-069-56	DIODE UDZS-TE17-6.2B		R905	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
D913	8-719-069-56	DIODE UDZS-TE17-6.2B		R906	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
D971	8-719-069-56	DIODE UDZS-TE17-6.2B		R907	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
D972	8-719-976-99	DIODE DTZ5.1B		R910	1-216-864-11	METAL CHIP 0 5% 1/10W	
		< IC >		R911	1-216-819-11	METAL CHIP 680 5% 1/10W	
IC901	6-701-640-01	IC LC75813T-E		R912	1-216-819-11	METAL CHIP 680 5% 1/10W	
IC971	6-600-047-01	IC RS-670		R913	1-216-819-11	METAL CHIP 680 5% 1/10W	
				R914	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R915	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
				R916	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	

CDX-CA705M

KEY	LIMIT	LOAD	MAIN
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Ref. No.	Part No.	Description			Remark
R917	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R918	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R919	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R921	1-216-025-11	RES-CHIP	100	5%	1/10W
R922	1-216-029-00	METAL CHIP	150	5%	1/10W
R926	1-216-809-11	METAL CHIP	100	5%	1/10W
R927	1-216-809-11	METAL CHIP	100	5%	1/10W
R928	1-216-809-11	METAL CHIP	100	5%	1/10W
R930	1-216-029-00	METAL CHIP	150	5%	1/10W
R931	1-216-025-11	RES-CHIP	100	5%	1/10W
R932	1-216-029-00	METAL CHIP	150	5%	1/10W
R936	1-216-821-11	METAL CHIP	1K	5%	1/10W
R937	1-216-821-11	METAL CHIP	1K	5%	1/10W
R938	1-216-821-11	METAL CHIP	1K	5%	1/10W
R940	1-216-025-11	RES-CHIP	100	5%	1/10W
R941	1-216-029-00	METAL CHIP	150	5%	1/10W
R942	1-216-029-00	METAL CHIP	150	5%	1/10W
R950	1-216-041-00	METAL CHIP	470	5%	1/10W
R951	1-216-041-00	METAL CHIP	470	5%	1/10W
R958	1-216-809-11	METAL CHIP	100	5%	1/10W
R959	1-216-809-11	METAL CHIP	100	5%	1/10W
R970	1-216-021-00	METAL CHIP	68	5%	1/10W
R971	1-216-021-00	METAL CHIP	68	5%	1/10W
R976	1-216-025-11	RES-CHIP	100	5%	1/10W
R982	1-216-025-11	RES-CHIP	100	5%	1/10W
R983	1-216-025-11	RES-CHIP	100	5%	1/10W
R984	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R985	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R986	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R987	1-216-025-11	RES-CHIP	100	5%	1/10W
R990	1-216-857-11	METAL CHIP	1M	5%	1/10W
R991	1-216-840-11	METAL CHIP	39K	5%	1/10W
R992	1-216-821-11	METAL CHIP	1K	5%	1/10W
R993	1-216-821-11	METAL CHIP	1K	5%	1/10W
R994	1-216-821-11	METAL CHIP	1K	5%	1/10W
R995	1-216-817-11	METAL CHIP	470	5%	1/10W
R996	1-216-817-11	METAL CHIP	470	5%	1/10W
R997	1-216-821-11	METAL CHIP	1K	5%	1/10W
R998	1-216-809-11	METAL CHIP	100	5%	1/10W
R999	1-216-864-11	METAL CHIP	0	5%	1/10W
< ROTARY ENCODER >					
RE901	1-477-144-12	ENCODER, ROTARY			
< SWITCH >					
S901	1-771-884-11	SWITCH, TACTILE (WITH LED) (OFF)			
S903	1-771-884-11	SWITCH, TACTILE (WITH LED) (DSO)			
S912	1-771-884-11	SWITCH, TACTILE (WITH LED) (ENTER)			
S914	1-771-884-11	SWITCH, TACTILE (WITH LED) (EQ7)			
S917	1-771-884-11	SWITCH, TACTILE (WITH LED) (LIST)			

Ref. No.	Part No.	Description	Remark		
	1-659-835-12	LIMIT BOARD *****			
		< SWITCH >			
SW3	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)	*****		
	1-659-837-11	LOAD BOARD *****			
		< SWITCH >			
SW4	1-529-566-31	SWITCH, PUSH (1 KEY) (DOWN)	*****		
	A-3340-295-A	MAIN BOARD, COMPLETE *****			
*	3-040-998-01	BRACKET (IC)			
*	3-223-780-11	HEAT SINK			
*	3-223-783-01	CHASSIS (BACK)			
	3-236-285-01	HEAT SINK (REG)			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
	7-685-797-09	SCREW +PTT 2.6X16 (S)			
		< CAPACITOR >			
C10	1-216-864-11	METAL CHIP	0	5%	1/10W
C11	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C13	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C14	1-124-584-00	ELECT	100uF	20%	10V
C15	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C16	1-124-584-00	ELECT	100uF	20%	10V
C17	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C31	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C32	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C33	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C41	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C42	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C53	1-216-864-11	METAL CHIP	0	5%	1/10W
C57	1-216-864-11	METAL CHIP	0	5%	1/10W
C141	1-126-160-11	ELECT	1uF	20%	50V
C142	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C173	1-124-233-11	ELECT	10uF	20%	16V
C176	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C177	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C178	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C183	1-124-233-11	ELECT	10uF	20%	16V
C185	1-216-864-11	METAL CHIP	0	5%	1/10W
C186	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C187	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C188	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C192	1-216-864-11	METAL CHIP	0	5%	1/10W
C241	1-126-160-11	ELECT	1uF	20%	50V
C242	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C273	1-124-233-11	ELECT	10uF	20%	16V
C276	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C277	1-216-864-11	METAL CHIP	0	5%	1/10W	C752	1-124-233-11	ELECT	10uF	20%	16V
C278	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C753	1-124-233-11	ELECT	10uF	20%	16V
C279	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C755	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C283	1-124-233-11	ELECT	10uF	20%	16V	C756	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C286	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C757	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C287	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C781	1-126-936-11	ELECT	3300uF	20%	16V
C288	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C782	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C292	1-216-864-11	METAL CHIP	0	5%	1/10W	C783	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C301	1-124-234-00	ELECT	22uF	20%	16V	C784	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C302	1-124-234-00	ELECT	22uF	20%	16V	C785	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-124-234-00	ELECT	22uF	20%	16V	C786	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C305	1-124-584-00	ELECT	100uF	20%	10V	C991	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-126-160-11	ELECT	1uF	20%	50V	C993	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C307	1-126-160-11	ELECT	1uF	20%	50V	C995	1-126-935-11	ELECT	470uF	20%	16V
C330	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C999	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C331	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	< CONNECTOR >					
C333	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN701	1-784-456-11	CONNECTOR, FFC/FPC 14P			
C334	1-124-584-00	ELECT	100uF	20%	10V	CNJ581	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
C335	1-124-233-11	ELECT	10uF	20%	16V	CNP301	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P			
C336	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CNP781	1-774-701-11	PIN, CONNECTOR 16P			
C337	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	< DIODE >					
C338	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	D350	8-719-036-94	DIODE RD5.6SB-T1			
C339	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D351	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C340	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	D352	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C341	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D552	8-719-067-56	DIODE MA112-TX			
C342	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D553	8-719-988-61	DIODE 1SS355TE-17			
C343	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	D581	8-719-072-70	DIODE MA2ZD14001S0			
C344	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	D582	8-719-056-93	DIODE UDZ-TE-17-18B			
C350	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D584	8-719-056-93	DIODE UDZ-TE-17-18B			
C351	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D585	8-719-056-82	DIODE UDZ-TE-17-6.2B			
C352	1-124-234-00	ELECT	22uF	20%	16V	D611	8-719-053-18	DIODE 1SR154-400TE-25			
C353	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D612	8-719-053-18	DIODE 1SR154-400TE-25			
C354	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D613	8-719-053-18	DIODE 1SR154-400TE-25			
C501	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	D614	8-719-053-18	DIODE 1SR154-400TE-25			
C504	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	D621	8-719-988-61	DIODE 1SS355TE-17			
C505	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	D625	8-719-987-69	DIODE DAN217			
C506	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D701	8-719-988-61	DIODE 1SS355TE-17			
C507	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D702	8-719-988-61	DIODE 1SS355TE-17			
C510	1-124-584-00	ELECT	100uF	20%	10V	D703	8-719-056-93	DIODE MAZN12000LS0			
C511	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D710	8-719-085-72	DIODE UMZ6.8ENTR			
C513	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	D711	8-719-085-72	DIODE UMZ6.8ENTR			
C514	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	D712	8-719-085-72	DIODE UMZ6.8ENTR			
C551	1-125-710-11	DOUBLE LAYERS	0.1F		5.5V	D721	8-719-079-55	DIODE PTZ-TE25-22			
C571	1-164-505-11	CERAMIC CHIP	2.2uF		16V	D722	8-719-079-55	DIODE PTZ-TE25-22			
C573	1-164-505-11	CERAMIC CHIP	2.2uF		16V	D723	8-719-079-55	DIODE PTZ-TE25-22			
C581	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D724	8-719-079-55	DIODE PTZ-TE25-22			
C610	1-126-157-11	ELECT	10uF	20%	16V	D731	8-719-079-55	DIODE PTZ-TE25-22			
C611	1-126-157-11	ELECT	10uF	20%	16V	D732	8-719-079-55	DIODE PTZ-TE25-22			
C612	1-126-157-11	ELECT	10uF	20%	16V	D733	8-719-079-55	DIODE PTZ-TE25-22			
C613	1-126-157-11	ELECT	10uF	20%	16V	D734	8-719-079-55	DIODE PTZ-TE25-22			
C614	1-126-157-11	ELECT	10uF	20%	16V	D781	8-719-049-38	DIODE 1N5404TU			
C615	1-126-157-11	ELECT	10uF	20%	16V	D782	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C623	1-124-589-11	ELECT	47uF	20%	16V	D998	8-719-056-93	DIODE UDZ-TE-17-18B			
C627	1-164-346-11	CERAMIC CHIP	1uF		16V	D999	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C703	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V						

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< IC >							
IC331	8-759-827-13	IC TDA7406T		R143	1-216-833-11	METAL CHIP 10K 5%	1/10W
IC332	8-759-711-85	IC NJM4580E-D		R170	1-216-813-11	METAL CHIP 220 5%	1/10W
IC333	8-759-711-85	IC NJM4580E-D		R172	1-216-864-11	METAL CHIP 0 5%	1/10W
IC501	6-801-200-03	IC MN101C49KCY2		R174	1-216-864-11	METAL CHIP 0 5%	1/10W
IC551	6-701-405-01	IC PST3443UL		R175	1-216-841-11	METAL CHIP 47K 5%	1/10W
IC581	8-759-449-89	IC BA8270F-E2		R176	1-216-833-11	METAL CHIP 10K 5%	1/10W
IC601	6-600-051-01	IC AN80T51		R179	1-216-821-11	METAL CHIP 1K 5%	1/10W
IC751	8-759-827-14	IC TA8268AH		R180	1-216-813-11	METAL CHIP 220 5%	1/10W
< JACK >				R181	1-216-864-11	METAL CHIP 0 5%	1/10W
J10	1-815-185-12	JACK (ANTENNA)		R182	1-216-864-11	METAL CHIP 0 5%	1/10W
J561	1-566-822-41	JACK (REMOTE IN)		R184	1-216-864-11	METAL CHIP 0 5%	1/10W
< COIL >				R185	1-216-841-11	METAL CHIP 47K 5%	1/10W
L781	1-419-476-11	COIL, CHOKE 250uH		R186	1-216-833-11	METAL CHIP 10K 5%	1/10W
L901	1-500-245-11	INDUCTOR, FERRITE BEAD		R189	1-216-821-11	METAL CHIP 1K 5%	1/10W
L902	1-469-650-22	INDUCTOR, FERRITE BEAD		R191	1-216-864-11	METAL CHIP 0 5%	1/10W
< JACK >				R242	1-216-821-11	METAL CHIP 1K 5%	1/10W
PJ151	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)		R243	1-216-833-11	METAL CHIP 10K 5%	1/10W
< TRANSISTOR >				R270	1-216-813-11	METAL CHIP 220 5%	1/10W
Q171	8-729-023-22	TRANSISTOR 2SD2114K		R272	1-216-864-11	METAL CHIP 0 5%	1/10W
Q181	8-729-023-22	TRANSISTOR 2SD2114K		R274	1-216-864-11	METAL CHIP 0 5%	1/10W
Q271	8-729-023-22	TRANSISTOR 2SD2114K		R275	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q281	8-729-023-22	TRANSISTOR 2SD2114K		R276	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q350	8-729-106-68	TRANSISTOR 2SD1615A-GP		R279	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q351	8-729-021-82	TRANSISTOR 2SD2396K		R280	1-216-813-11	METAL CHIP 220 5%	1/10W
Q352	8-729-047-76	TRANSISTOR FMC2A-T148		R281	1-216-864-11	METAL CHIP 0 5%	1/10W
Q353	8-729-900-53	TRANSISTOR DTC114EK		R282	1-216-864-11	METAL CHIP 0 5%	1/10W
Q551	8-729-027-23	TRANSISTOR DTA114EKA-T146		R284	1-216-864-11	METAL CHIP 0 5%	1/10W
Q571	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R285	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q581	8-729-900-53	TRANSISTOR DTC114EK		R286	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q585	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R289	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q601	8-729-106-60	TRANSISTOR 2SB1115A		R291	1-216-864-11	METAL CHIP 0 5%	1/10W
Q603	8-729-047-76	TRANSISTOR FMC2A-T148		R330	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q621	8-729-027-23	TRANSISTOR DTA114EKA-T146		R332	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q622	8-729-900-53	TRANSISTOR DTC114EK		R333	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q625	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R334	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q631	8-729-047-76	TRANSISTOR FMC2A-T148		R335	1-216-833-11	METAL CHIP 10K 5%	1/10W
< RESISTOR >				R336	1-216-833-11	METAL CHIP 10K 5%	1/10W
R10	1-216-864-11	METAL CHIP 0 5%	1/10W	R337	1-216-833-11	METAL CHIP 10K 5%	1/10W
R12	1-216-797-11	METAL CHIP 10 5%	1/10W	R338	1-216-833-11	METAL CHIP 10K 5%	1/10W
R13	1-216-815-11	METAL CHIP 330 5%	1/10W	R339	1-216-833-11	METAL CHIP 10K 5%	1/10W
R14	1-216-815-11	METAL CHIP 330 5%	1/10W	R340	1-216-833-11	METAL CHIP 10K 5%	1/10W
R28	1-216-864-11	METAL CHIP 0 5%	1/10W	R341	1-216-833-11	METAL CHIP 10K 5%	1/10W
R29	1-216-864-11	METAL CHIP 0 5%	1/10W	R343	1-216-797-11	METAL CHIP 10 5%	1/10W
R31	1-218-867-11	RES-CHIP 6.8K 5%	1/10W	R344	1-216-797-11	METAL CHIP 10 5%	1/10W
R32	1-216-845-11	METAL CHIP 100K 5%	1/10W	R345	1-216-797-11	METAL CHIP 10 5%	1/10W
R41	1-216-841-11	METAL CHIP 47K 5%	1/10W	R350	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R142	1-216-821-11	METAL CHIP 1K 5%	1/10W	R351	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
				R352	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
				R353	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
				R354	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
				R355	1-216-864-11	METAL CHIP 0 5%	1/10W
				R356	1-469-844-11	INDUCTOR 2.2uH	
				R357	1-216-864-11	METAL CHIP 0 5%	1/10W
				R429	1-216-864-11	METAL CHIP 0 5%	1/10W
				R431	1-216-864-11	METAL CHIP 0 5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R433	1-216-864-11	METAL CHIP	0	5%	1/10W	R577	1-216-864-11	METAL CHIP	0	5%	1/10W
R435	1-216-864-11	METAL CHIP	0	5%	1/10W	R578	1-216-864-11	METAL CHIP	0	5%	1/10W
R448	1-216-864-11	METAL CHIP	0	5%	1/10W	R583	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-864-11	METAL CHIP	0	5%	1/10W	R584	1-216-809-11	METAL CHIP	100	5%	1/10W
R462	1-216-864-11	METAL CHIP	0	5%	1/10W	R585	1-216-821-11	METAL CHIP	1K	5%	1/10W
R464	1-216-864-11	METAL CHIP	0	5%	1/10W	R586	1-216-837-11	METAL CHIP	22K	5%	1/10W
R500	1-216-813-11	METAL CHIP	220	5%	1/10W	R588	1-216-833-11	METAL CHIP	10K	5%	1/10W
R501	1-216-837-11	METAL CHIP	22K	5%	1/10W	R589	1-216-833-11	METAL CHIP	10K	5%	1/10W
R502	1-216-813-11	METAL CHIP	220	5%	1/10W	R590	1-216-821-11	METAL CHIP	1K	5%	1/10W
R503	1-216-845-11	METAL CHIP	100K	5%	1/10W	R591	1-216-841-11	METAL CHIP	47K	5%	1/10W
R504	1-216-821-11	METAL CHIP	1K	5%	1/10W	R592	1-216-845-11	METAL CHIP	100K	5%	1/10W
R505	1-216-821-11	METAL CHIP	1K	5%	1/10W	R601	1-216-001-00	METAL CHIP	10	5%	1/10W
R506	1-216-821-11	METAL CHIP	1K	5%	1/10W	R602	1-216-001-00	METAL CHIP	10	5%	1/10W
R507	1-216-841-11	METAL CHIP	47K	5%	1/10W	R603	1-216-001-00	METAL CHIP	10	5%	1/10W
R508	1-216-845-11	METAL CHIP	100K	5%	1/10W	R604	1-216-001-00	METAL CHIP	10	5%	1/10W
R509	1-216-809-11	METAL CHIP	100	5%	1/10W	R605	1-216-001-00	METAL CHIP	10	5%	1/10W
R510	1-216-809-11	METAL CHIP	100	5%	1/10W	R606	1-216-001-00	METAL CHIP	10	5%	1/10W
R511	1-216-809-11	METAL CHIP	100	5%	1/10W	R607	1-216-001-00	METAL CHIP	10	5%	1/10W
R512	1-233-576-11	RES, CHIP NETWORK 100X4				R608	1-216-001-00	METAL CHIP	10	5%	1/10W
R513	1-233-576-11	RES, CHIP NETWORK 100X4				R609	1-216-001-00	METAL CHIP	10	5%	1/10W
R514	1-233-576-11	RES, CHIP NETWORK 100X4				R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R515	1-216-845-11	METAL CHIP	100K	5%	1/10W	R615	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R517	1-216-845-11	METAL CHIP	100K	5%	1/10W	R616	1-216-864-11	METAL CHIP	0	5%	1/10W
R519	1-216-849-11	METAL CHIP	220K	5%	1/10W	R622	1-216-805-11	METAL CHIP	47	5%	1/10W
R521	1-216-845-11	METAL CHIP	100K	5%	1/10W	R626	1-216-864-11	METAL CHIP	0	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W	R629	1-216-849-11	METAL CHIP	220K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W	R630	1-216-864-11	METAL CHIP	0	5%	1/10W
R526	1-216-833-11	METAL CHIP	10K	5%	1/10W	R631	1-216-029-00	METAL CHIP	150	5%	1/10W
R527	1-216-833-11	METAL CHIP	10K	5%	1/10W	R632	1-216-029-00	METAL CHIP	150	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W	R633	1-216-029-00	METAL CHIP	150	5%	1/10W
R529	1-216-845-11	METAL CHIP	100K	5%	1/10W	R634	1-216-029-00	METAL CHIP	150	5%	1/10W
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W	R635	1-216-864-11	METAL CHIP	0	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W	R690	1-216-864-11	METAL CHIP	0	5%	1/10W
R536	1-216-845-11	METAL CHIP	100K	5%	1/10W	R691	1-216-864-11	METAL CHIP	0	5%	1/10W
R538	1-216-845-11	METAL CHIP	100K	5%	1/10W	R701	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R541	1-216-845-11	METAL CHIP	100K	5%	1/10W	R702	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R544	1-216-845-11	METAL CHIP	100K	5%	1/10W	R710	1-216-809-11	METAL CHIP	100	5%	1/10W
R547	1-216-845-11	METAL CHIP	100K	5%	1/10W	R711	1-216-809-11	METAL CHIP	100	5%	1/10W
R551	1-216-809-11	METAL CHIP	100	5%	1/10W	R712	1-216-809-11	METAL CHIP	100	5%	1/10W
R555	1-216-809-11	METAL CHIP	100	5%	1/10W	R713	1-216-809-11	METAL CHIP	100	5%	1/10W
R556	1-216-845-11	METAL CHIP	100K	5%	1/10W	R714	1-216-809-11	METAL CHIP	100	5%	1/10W
R557	1-216-845-11	METAL CHIP	100K	5%	1/10W	R715	1-216-809-11	METAL CHIP	100	5%	1/10W
R560	1-216-845-11	METAL CHIP	100K	5%	1/10W	R716	1-216-029-00	METAL CHIP	150	5%	1/10W
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W	R719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R562	1-208-806-11	RES-CHIP	10K	0.5%	1/10W	R720	1-216-809-11	METAL CHIP	100	5%	1/10W
R563	1-216-809-11	METAL CHIP	100	5%	1/10W	R721	1-216-001-00	METAL CHIP	10	5%	1/10W
R564	1-216-809-11	METAL CHIP	100	5%	1/10W	R722	1-216-001-00	METAL CHIP	10	5%	1/10W
R565	1-216-845-11	METAL CHIP	100K	5%	1/10W	R723	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-216-845-11	METAL CHIP	100K	5%	1/10W	R724	1-216-809-11	METAL CHIP	100	5%	1/10W
R571	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R725	1-216-809-11	METAL CHIP	100	5%	1/10W
R572	1-216-841-11	METAL CHIP	47K	5%	1/10W	R726	1-216-809-11	METAL CHIP	100	5%	1/10W
R573	1-216-841-11	METAL CHIP	47K	5%	1/10W	R727	1-216-809-11	METAL CHIP	100	5%	1/10W
R574	1-216-841-11	METAL CHIP	47K	5%	1/10W	R728	1-216-809-11	METAL CHIP	100	5%	1/10W
R575	1-216-222-00	RES-CHIP	10K	5%	1/8W	R729	1-216-809-11	METAL CHIP	100	5%	1/10W
R576	1-216-222-00	RES-CHIP	10K	5%	1/8W	R730	1-216-809-11	METAL CHIP	100	5%	1/10W

CDX-CA705M

MAIN

SERVO

Ref. No.	Part No.	Description	Remark		
R751	1-216-833-11	METAL CHIP	10K	5%	1/10W
R752	1-216-821-11	METAL CHIP	1K	5%	1/10W
R753	1-216-841-11	METAL CHIP	47K	5%	1/10W
R754	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R782	1-216-864-11	METAL CHIP	0	5%	1/10W
R787	1-216-809-11	METAL CHIP	100	5%	1/10W
< SWITCH >					
S551	1-692-431-21	SWITCH, TACTILE (RESET)			
S552	1-771-540-11	SWITCH, PUSH (1 KEY) (NOSE DET)			
S553	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT)			
< THERMISTOR (POSITIVE) >					
TH501	1-803-350-21	THERMISTOR, POSITIVE			
< TUNER >					
TU10	A-3220-812-A	TUNER UNIT (TUX-020)			
< VIBRATOR >					
X501	1-781-294-21	VIBRATOR, CRYSTAL (18.432MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			

A-3283-270-A		SERVO BOARD, COMPLETE			

1-683-666-11		PICK-UP FLEXIBLE BOARD			
< CAPACITOR >					
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-104-609-11	ELECT CHIP	100uF	20%	4V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C9	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C10	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C11	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C13	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C14	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C16	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C22	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C24	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C25	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C26	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C27	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C29	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

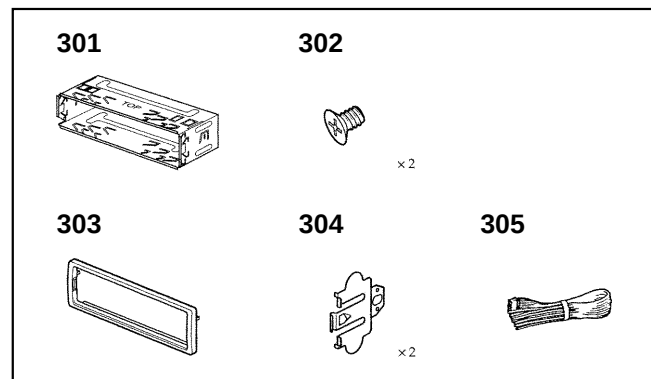
Ref. No.	Part No.	Description	Remark		
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C38	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C43	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C44	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C70	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C71	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
< CONNECTOR >					
CN1	1-764-616-12	HOUSING, CONNECTOR (PC BOARD) 30P			
CN3	1-770-347-21	CONNECTOR, FPC 6P			
< RESISTOR >					
FB5	1-216-298-11	RES-CHIP	2.2	5%	1/10W
< IC >					
IC1	8-759-699-98	IC uPD63711GC-8EU			
IC2	8-759-658-87	IC BA5810FP-E2			
< TRANSISTOR >					
Q1	8-729-904-87	TRANSISTOR	2SB1197K-R		
< RESISTOR >					
R3	1-216-797-11	METAL CHIP	10	5%	1/10W
R5	1-218-344-11	RES-CHIP	7.5K	5%	1/10W
R6	1-216-837-11	METAL CHIP	22K	5%	1/10W
R7	1-216-839-11	METAL CHIP	33K	5%	1/10W
R8	1-216-833-11	METAL CHIP	10K	5%	1/10W
R9	1-216-840-11	METAL CHIP	39K	5%	1/10W
R10	1-216-835-11	METAL CHIP	15K	5%	1/10W
R12	1-216-837-11	METAL CHIP	22K	5%	1/10W
R14	1-216-841-11	METAL CHIP	47K	5%	1/10W
R15	1-216-841-11	METAL CHIP	47K	5%	1/10W
R17	1-216-809-11	METAL CHIP	100	5%	1/10W
R18	1-216-809-11	METAL CHIP	100	5%	1/10W
R19	1-216-809-11	METAL CHIP	100	5%	1/10W
R20	1-216-809-11	METAL CHIP	100	5%	1/10W
R21	1-216-821-11	METAL CHIP	1K	5%	1/10W
R22	1-216-821-11	METAL CHIP	1K	5%	1/10W
R26	1-216-797-11	METAL CHIP	10	5%	1/10W
R29	1-216-833-11	METAL CHIP	10K	5%	1/10W
R30	1-216-833-11	METAL CHIP	10K	5%	1/10W
R31	1-216-789-11	METAL CHIP	2.2	5%	1/10W
< VIBRATOR >					
X1	1-795-520-11	VIBRATOR, CERAMIC (16.9344MHz)			

SUB

SUB (CD)

Ref. No.	Part No.	Description	Remark
	1-659-834-11	SUB BOARD *****	
	1-659-880-11	MOTOR FLEXIBLE BOARD < CONNECTOR >	
CN1	1-770-347-21	CONNECTOR, FPC 6P *****	
*	1-680-762-11	SUB (CD) BOARD *****	
	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE) (CNP802) < CONNECTOR >	
CNP801	1-794-064-12	SOCKET, CONNECTOR 14P < DIODE >	
LED801	8-719-082-38	LED CL-270SR-C-TS (CD WINDOW) < SWITCH >	
LSW801	1-771-883-11	SWITCH, TACTILE (WITH LED) (▲) *****	
MISCELLANEOUS *****			
9	1-776-207-82	CORD (WITH CONNECTOR) (POWER)	
251	X-3381-611-1	CHASSIS (OP) ASSY (including M901)	
△ 260	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3291-674-A	MOTOR ASSY, SLED (SLED)	
M903	A-3315-039-A	MOTOR SUB ASSY, LD (LOADING) *****	
ACCESSORIES *****			
	1-477-110-21	REMOTE COMMANDER (RM-X118)	
	3-230-047-01	LID, BATTERY CASE (for RM-X118)	
	3-237-887-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH)	
	3-237-888-11	MANUAL, INSTRUCTION INSTALL (ENGLISH, FRENCH)	
	X-3378-490-2	CASE (PANEL) ASSY (for FRONT PANEL) *****	

Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS *****			
301	X-3381-546-1	FRAME ASSY, FITTING	
302	3-934-325-01	SCREW, +K (5X8) TAPPING	
303	3-236-447-02	COLLAR	
304	3-233-644-02	SPRING, FITTING	
305	1-776-207-82	CORD (WITH CONNECTOR) (POWER)	



The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

REVISION HISTORY

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